Honda Diagnostic System

User Manual

Version 8

Change History

Ver.No.	Category	Description of Changes	Page No.	Date
8	Outboard Motor	Updated Compatible models list	8	June, 2013
7	Outboard Motor	Added Review HDS stored files in Dr.H application	99～104	December,2011
7	All	USB driver update after the model software installation (it needs to support 64bit PC).	46～47	December,2011
6	Outboard Motor Snow Blower	Updated Compatible models list	8	December,2011
5	Engine	Added ECU Data Restoration	92～98	July, 2011
4	All	Windows 7 support. New Dr.H registration and verification screens on New Service Information Portal Site. Replaced DTC screen capture. Added a note in Graph Display Function section.	12,34-40,48 63,68	June, 2010
3	Outboard Motor	Added Onboard Snapshot	91	June, 2009
2	Outboard Motor	Added Device Configuration	87～90	May, 2009
1	All	Initial Version		April, 2008

HONDA

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Introduction

Thank you for purchasing Dr. H.Please read these instructions carefully and take care to use Dr. H properly.

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1. Precautions when using.

Please read the following before using Dr. H

Adequate consideration for safety has been taken in regard to this product. However, please make sure that you only use this product after reading what is written in sections with the mark displayed below, and in the Warning and Caution sections.

The mark displayed below is to ensure the proper usage of this product to prevent the (unlikely) occurrence of faults or damage.

⚠DANGER	⚠WARNING	⚠CAUTION
Danger Failure to follow these instructions may result in death or serious injury	Warning There is a possibility of death or serious injury should these instructions not be followed	Caution Failure to follow these instructions may result in injury

⚠CAUTION

■ Do not disassemble or modify

・ Do not disassemble or modify the Dr. H unit (communication unit), or the attachments or any of the optional items. This can cause overheating, burns, electric shock, injury and malfunction. The warranty shall be invalid if disassembled even just once.

■ Handling AC adapter (optional item)

・ Do not touch the socket plug with wet hands. This may result in electric shock.

Advice

Handling this product

■ Do not expose to water

- The Dr. H unit (communication unit) and USB cables do not conform to waterproof specifications.
- Do not expose to high temperatures or sea (salty) breeze for extended periods. Condensation may form inside the unit due to sudden changes in the surrounding temperature. This may occur, for example, when bringing the product suddenly from a cold place into a warm room.

Use the optional waterproof box when exposed to splashing water or snowfall. (Refer to P- Components)

- Do not drop the Dr. H unit (communication unit) or place anything on top of it. This could damage it or cause it to malfunction.
- Do not use the Dr. H unit, attachments or optional goods if dented, cracked, damaged etc.
- Connect the end of the cable securely after checking for corrosion or damage to the connectors on the Dr. H unit. Do not use force to connect or disconnect. This may damage it or cause it to malfunction.

Handling the optional items

■ Handling the waterproof box (optional item)

- Do not drop the waterproof box.
- If the unit is dirty, wipe it with a soft, dry cloth.If the dirt does not come off, wipe it with a soft cleaning cloth that has been dipped in diluted mild detergent and has been firmly wrung. Do not use organic solvents such as alcohol. This may cause warping or discoloration.
- The case satisfies IP65 regulations. However, it is not guaranteed to be waterproof.

■ Handling the AC adapter (optional item)

- Using an AC adapter outside the voltage range of 100-240V could result in fire or electric shock.
- Connect the plug securely and fully into the socket. When removing the plug from the socket, do not pull it forcefully.
- Do not use if the main unit or cord is corroded, damaged, or dented etc., as this can result in fire or electric shock.
- The AC cable may be different according to the plug being used. Make sure to use the right AC cable with the right plug.

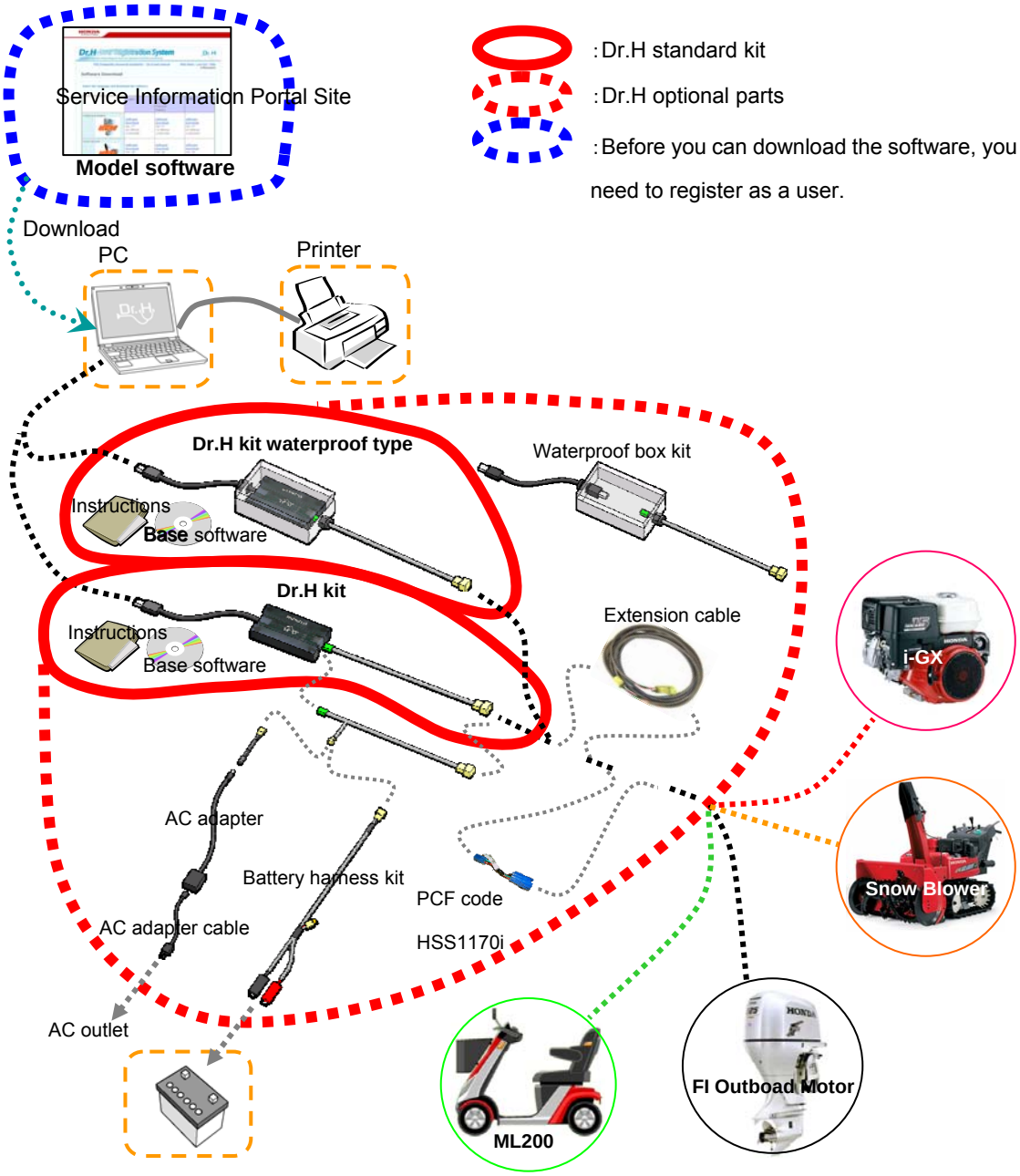
■ Handling the battery harness (optional item)

- Misuse can cause accidents so handle with care.
- Always connect to a 12V battery. Connecting to a battery other than a 12V battery can result in a flammable explosion, fire, or electric shock.
- When connecting the battery harness, always make sure not to short-circuit the + and - terminals.
- Connect battery harness in such as way that a loose gap is left, in order to prevent it from becoming detached when in use.
- Do not use if the harness is corroded, damaged, or dented etc., as this can result in fire or electric shock.
- Fix the red clip to the battery's plus terminal and the black clip to the battery's minus terminal.
- When connected in reverse, the damaged equipment or battery may explode.

2. Outline of system

Outline:

The Dr. H diagnostic system consists of basic software, model software, and a communication unit.



Function:

Main function	Explanation
DTC	This is the DTC (Diagnostic Trouble code) mode contained in the ECU.
All DTC History	Displays data when the DTC contained in the ECU appears.
Data list	Displays sensor, actuator, ECU internal data in real time.
Graph mode	A function for making line graphs.
Snapshot	Possible to record the existent values for items on the data list.
Simple diagnosis	A mode that enables a simple diagnosis
Function test	Automatically runs each device to enable its condition to be tested.

***The Dr. H system complies with the USA FCC Standard.**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Specifications: Communication unit

Conditions of use	Temperature range:－25℃～＋40℃ Environment: Water-free, dirt-free etc. locations.
Input specifications	Input voltage: 5V Current: 100mA

Name and address of suppliers

Honda Motor Co., Ltd.

Minami Aoyama 2-1-1, Minato-ku, Tokyo, 107-8556, Japan

3. Compatible models

Outboard motor	Snow Blower	Engine	Others
* BF225 * BF200 * BF175 * BF150 * BF135 * BF130 * BF115 * BF90D * BF75D * BF50D * BF40D * BF60A BFP60A * BF175A * BF200A * BF225A * BF115D * BF135A4,BF135AK0 * BF150A4,BF150AK0 * BF250A * BF175AK3 * BF200AK3 * BF225AK3	* HSM1590i * HSM1390i * HSM1390iH * HSM1336i * HSM1180i * HSM980i * HSM980iH * HSS1170i * HSS1170iH * HSS1380i * HSS1332i * HSS970i * HSS970iH * HSM1336iK1 * HS1336i * HSM1380i * HSM1390iK1 * HSM1380i * HSM1390iK1	* GX440I * GX440IU	* ML200 * ML200 K1

*As of June, 2013

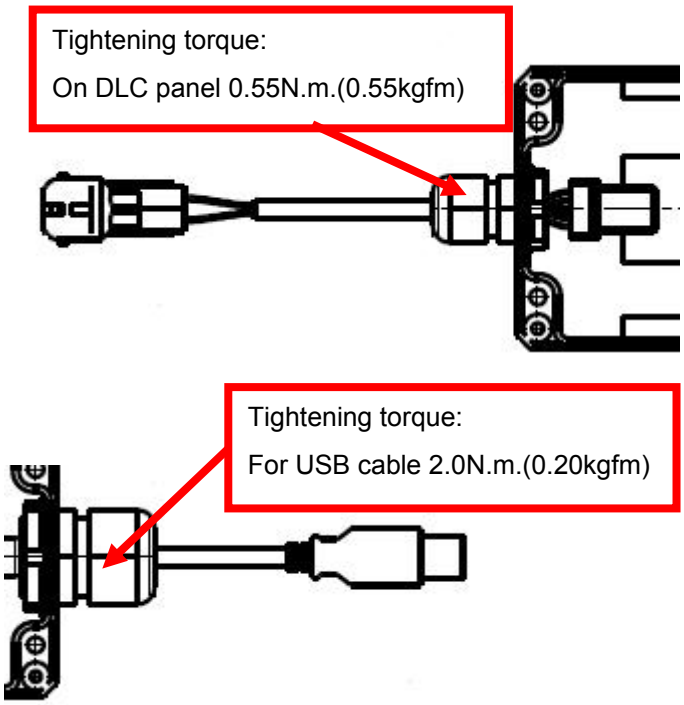
*Some models may not be sold depending on the region.

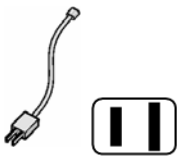
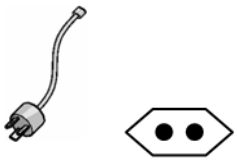
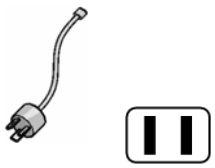
4. Components

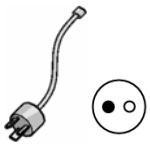
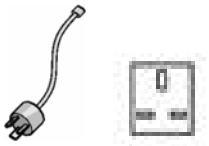
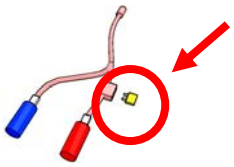
Dr. H standard kit 06398-YH0-000		
1. Interface unit communication unit connecting products to PC. *Do not disassemble.	2. USB cable Cable for connecting PC and communication unit.	3. DLC harness Sold as separate units Component no.39861-YH0-003 Harness for connecting communication unit to products.
4. Base software Dr. H basic software including operating manual	5. Instructions	

Dr. H standard kit waterproof type 06395-YH0-000		
1. Caution *Sometimes the waterproofing may be lost due to excessive water exposure. *Do not disassemble	2. Base software Dr. H basic software including operating manual	3. Instructions

* Should the position of the marking for the waterproof case connector become misaligned, realign using the specified torque value. Failure to do so can result in water or dirt getting inside.



Dr. H Optional parts		
1. Battery harness kit Component no.06397-YH0-000 * Only for iGX engine	2. AC adapter kit Component no.06396-YH0-000 * Only for iGX engine	3. Waterproof box kit Component no.06399-YH0-000 * Sometimes the waterproofing may be lost due to excessive water exposure. * Do not disassemble * Battery harness kit and AC adapter kit cannot be used together
4.  AC adapter cable (A-US) Component no.39871-YH0-003 * Only for iGX engine	5.  AC adapter cable (C-EU) Component no.39872-YH0-003 * Only for iGX engine	6.  AC adapter cable (A-JPN) Component no.39873-YH0-003 * Only for iGX engine

7. AC adapter cable (O-AUS) Component no.39874-YH0-003 * Only for iGX engine	8.  AC adapter cable (SE-KOR) Component no.39875-YH0-003 * Only for iGX engine	9.  AC adapter cable (BF-UK) Component no.39876-YH0-003 * Only for iGX engine
10. Extension cable Component no.39863-YH0-003 Used to extend DLC cable. Can be used for up to two cables.	11. PCF code Component no.32135-V21-010 DLC conversion code for snow plow Model used : HS1170i HS970i	12. DLC cable Component no.39861-YH0-003 Components for maintenance and repair
13.  Main fuse Component no. 98200 – 40500 Inside battery harness kit Components for maintenance and repair		

5. Preparation before installing software

Main points:

The Dr. H software consists of two types of software; base software and model software

Diagram 1 shows the 6 steps to be followed in sequence, including installation.

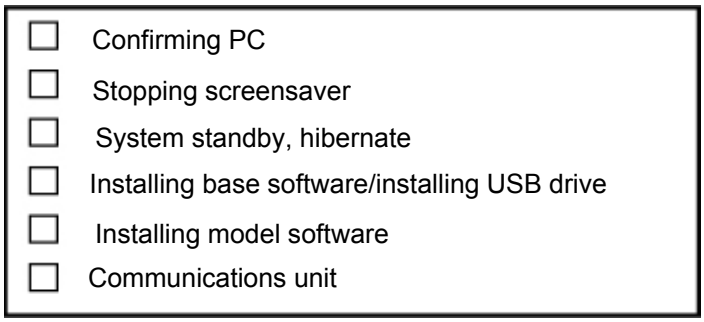


Diagram 1

*Use equipment that conforms to the following:

OS	Windows 2000, Windows XP, Windows Vista or Windows 7
CPU	Intel Pentium III 600MHz or AMD Athlon 1.0 GHz or higher
Memory	512 MB RAM or higher
Port	USB port
Disk device	CD-ROM drive
Free space in hard disk	1 GB free space
Display	1024 x 768 or 1280 x 1024 resolution

* The memory capacity and free space on the hard disk will vary between PCs.

* Using models with only a small amount of free hard disk space can lead to deficient memory or similar memory problems.

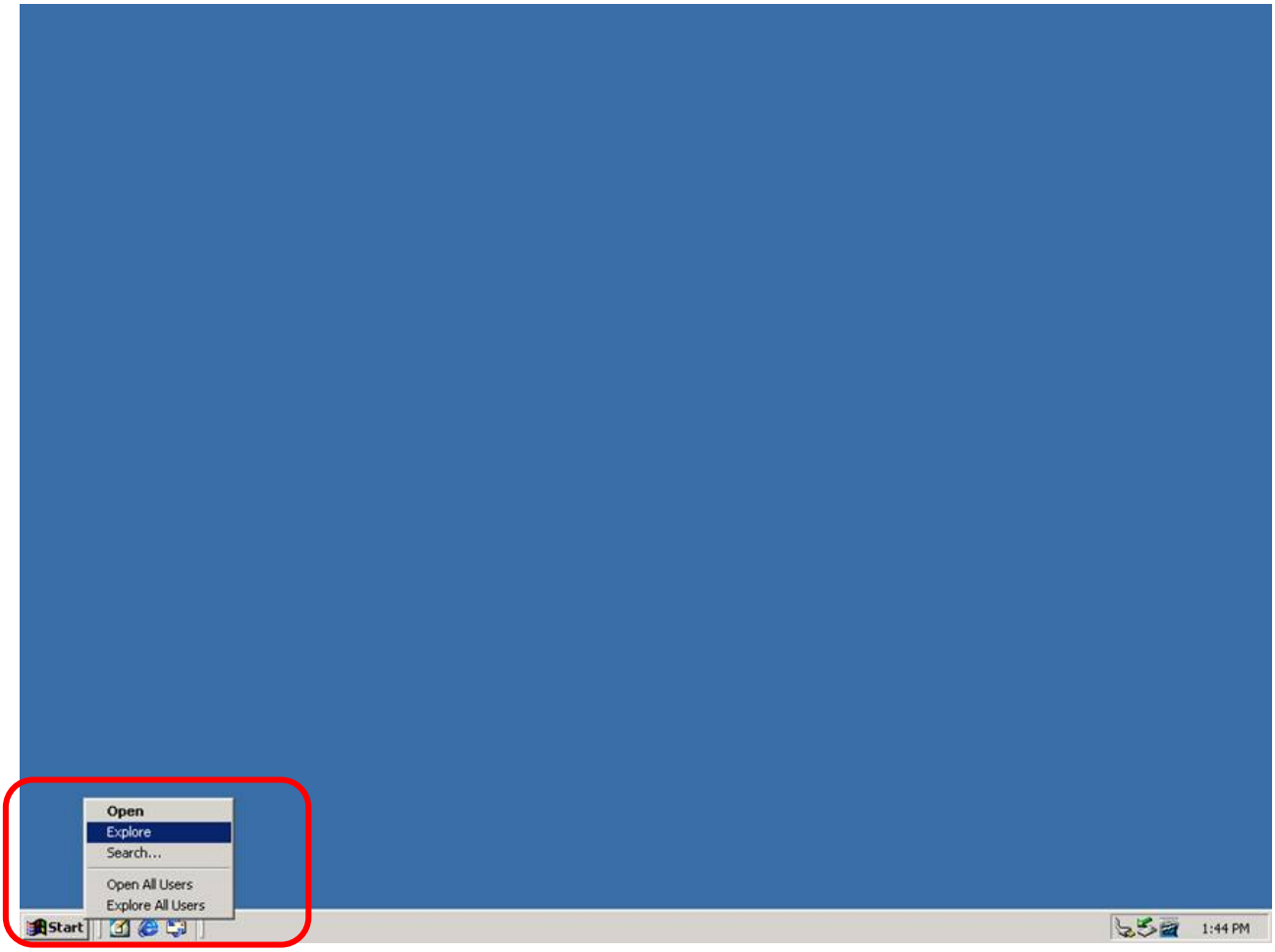
* Operations may be different depending on the model of PC used.

5 - 1. Confirm PC environment

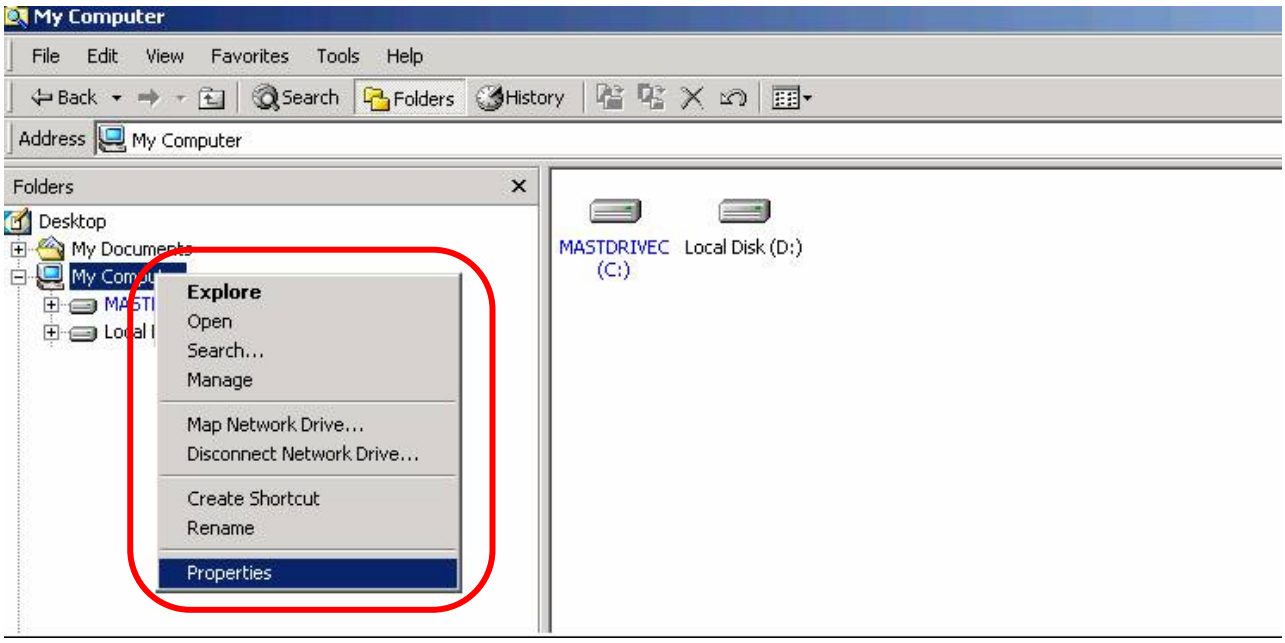
5 - 1 - 1. How to check OS, CPU, memory

1. Right-click on the "start" button and select "Explore"

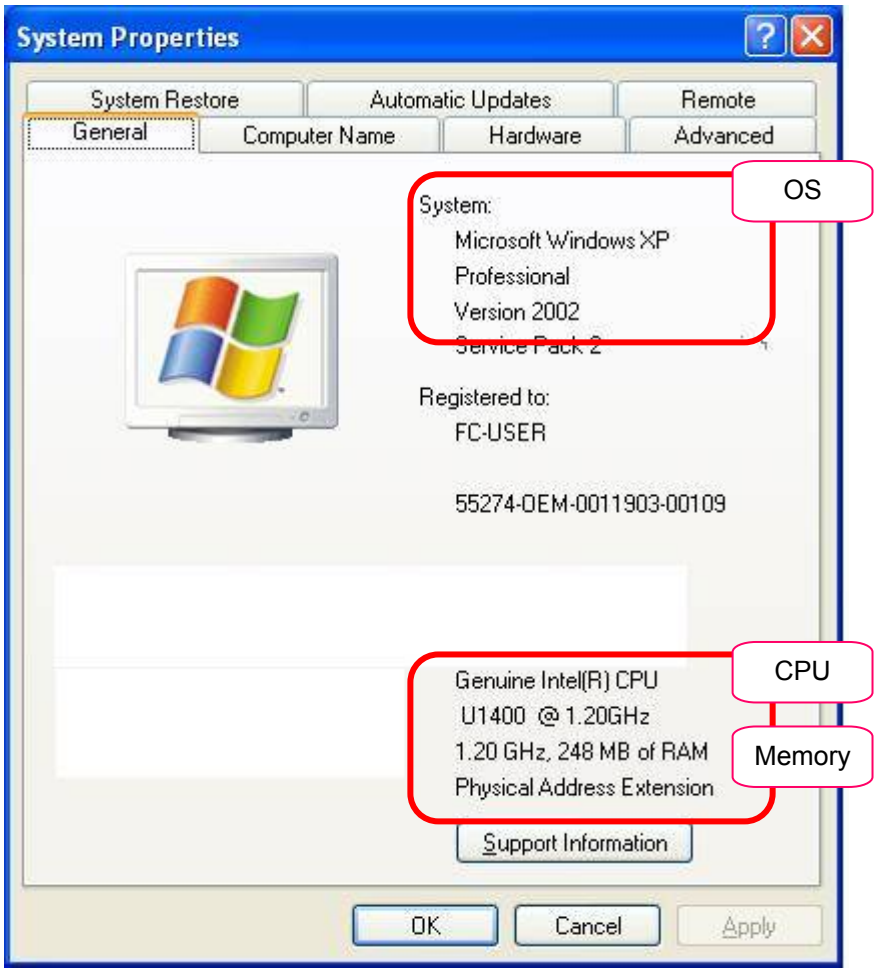
(If the My Computer icon is already on the desktop, click this.)



2. Right-click "My Computer" and select "Properties" in the menu that appears.



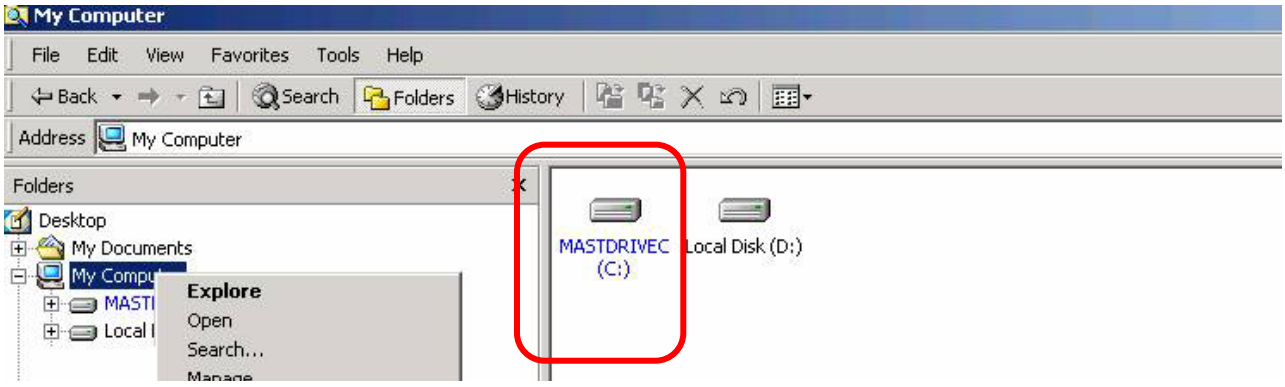
3. Confirm the PC's operating environment in the Systems Properties window.



* This is an explanation for Windows XP Professional SP1.

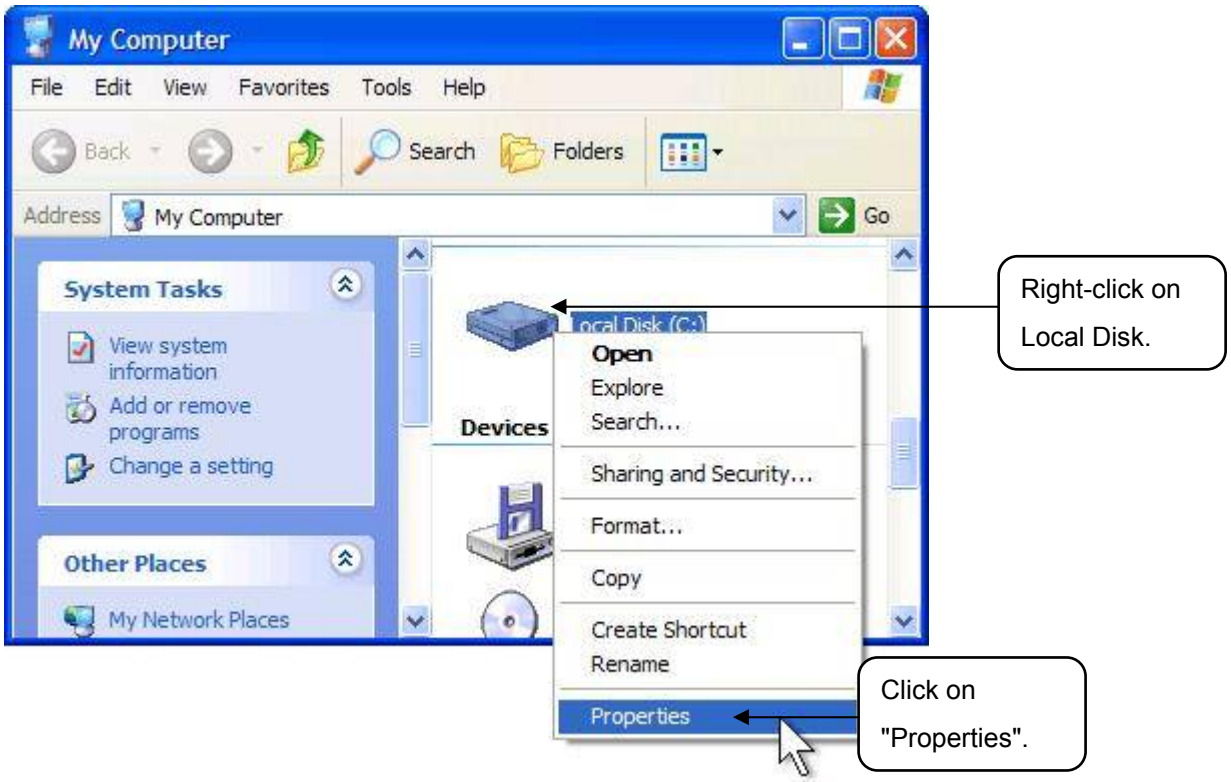
5 - 1 - 2 . How to check free space on the hard disk

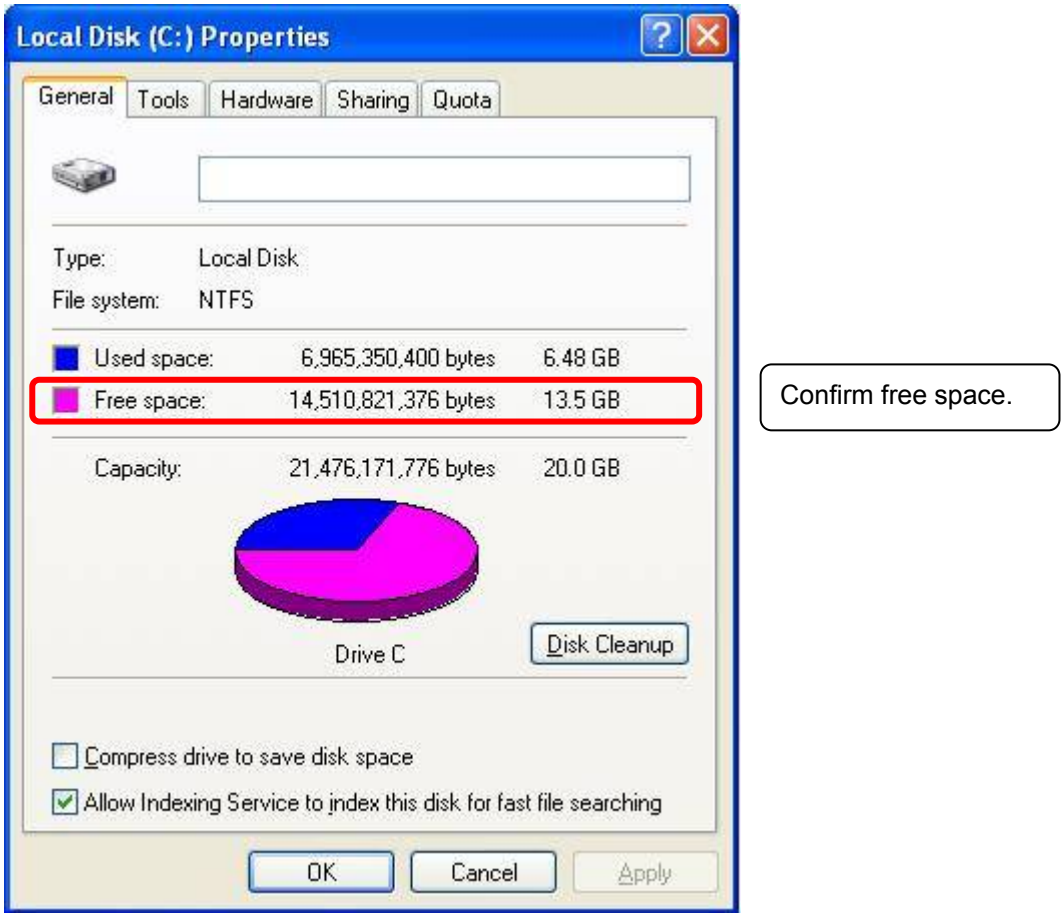
1. Select Local Disk (C).



2. Select the Local Disk (C) icon and click on "Properties".

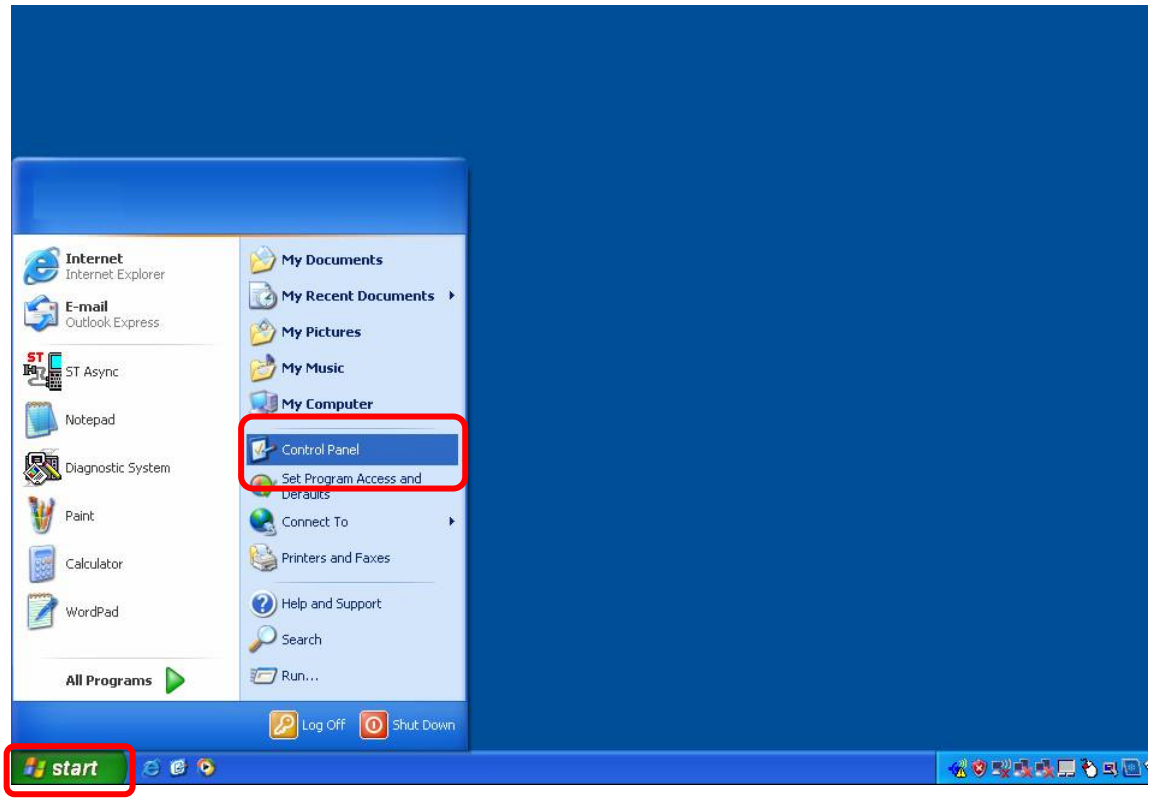
This displays the Properties window where the free space can be checked.



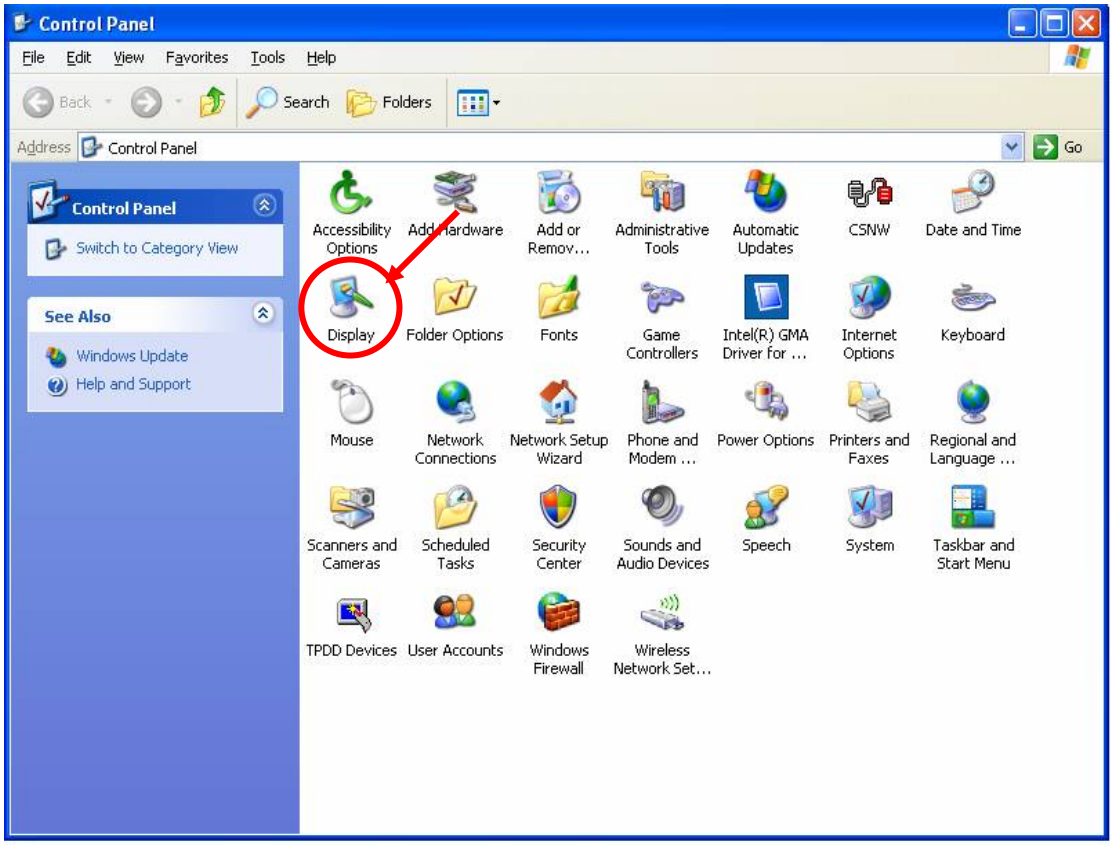


5 - 1 - 3 . How to check display resolution

1. Select "Start"→"Control Panel".

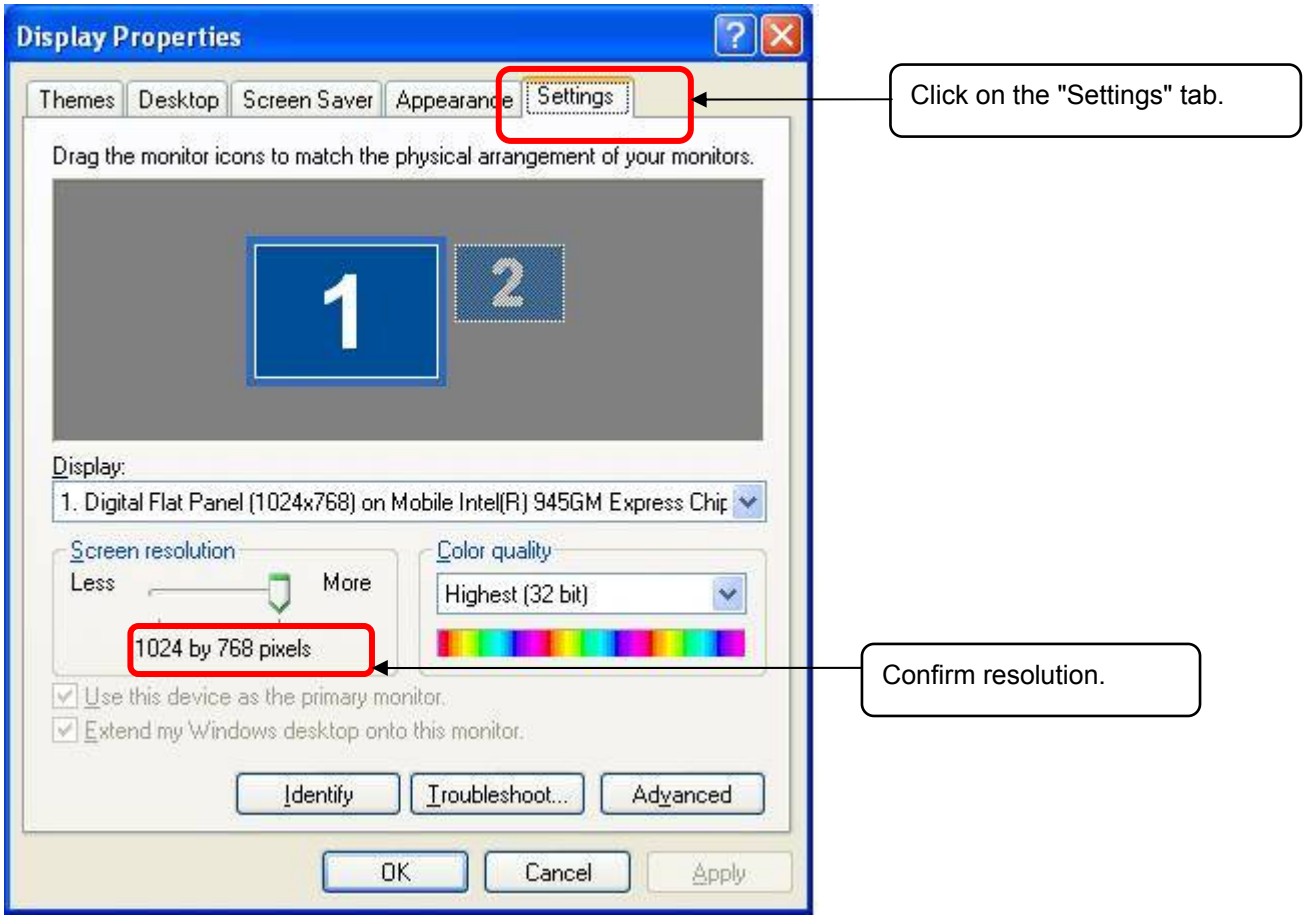


2. Select the "Display" icon on the Control Panel.



3. Click to the "Display Properties" window and then click on the "Settings" tab.

The resolution can be confirmed here.



- [x] Confirming PC environment
- [ ] Stopping screensaver
- [ ] System standby, hibernate
- [ ] Installing base software/installing USB drive
- [ ] Installing model software
- [ ] Communications unit

This completes the explanation on how to check the operating environment.Proceed to the remaining steps.

5 - 2. Setting up PC

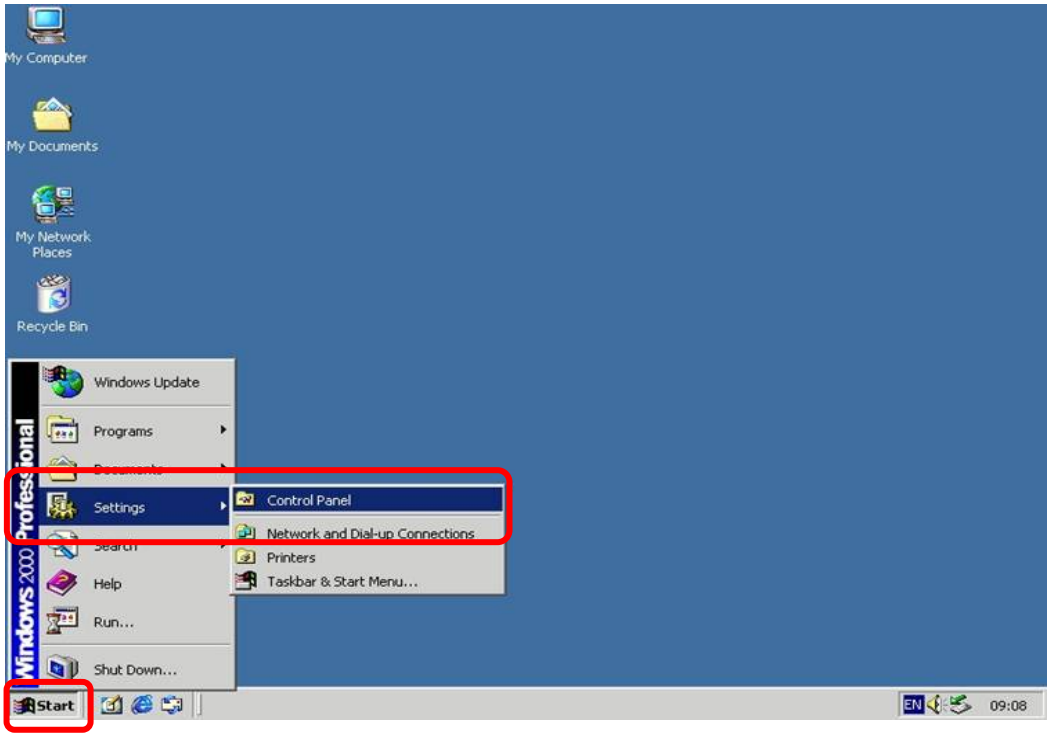
Close all other programs when installing.

If the PC's screen saver is activated or other applications are operating during the software installation, the installation may fail and defects may appear when Dr. H is run.

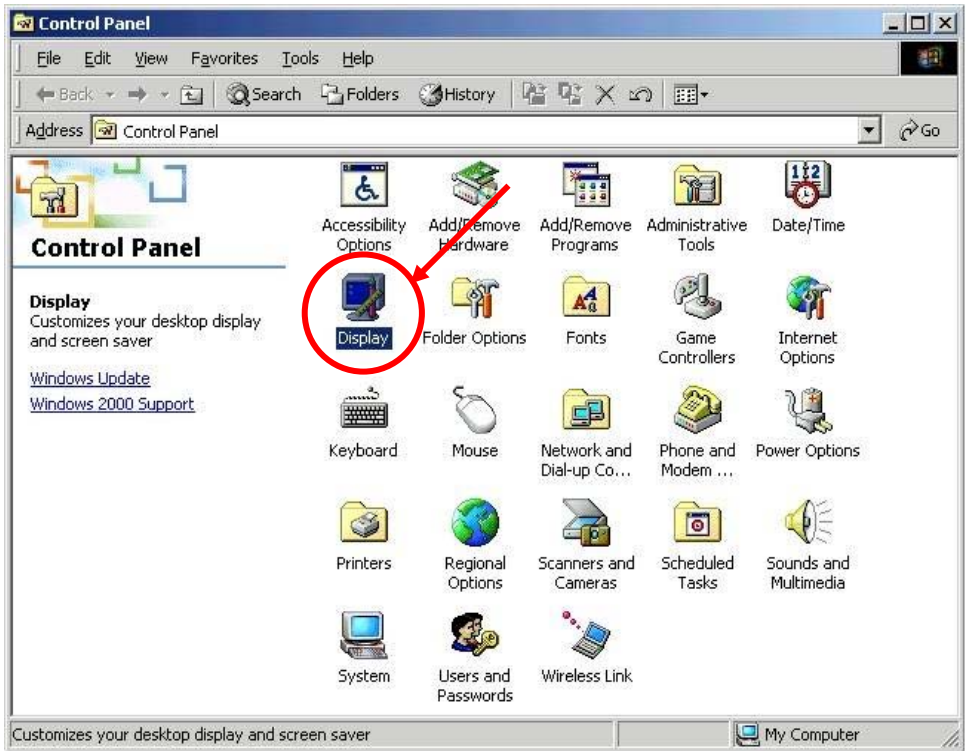
5 - 2 - 1. Stopping the screen saver

1) In the case of Windows 2000

1. Select "Start"→"Settings"→"Control Panel"



2. Select the "Display" icon on the Control Panel.

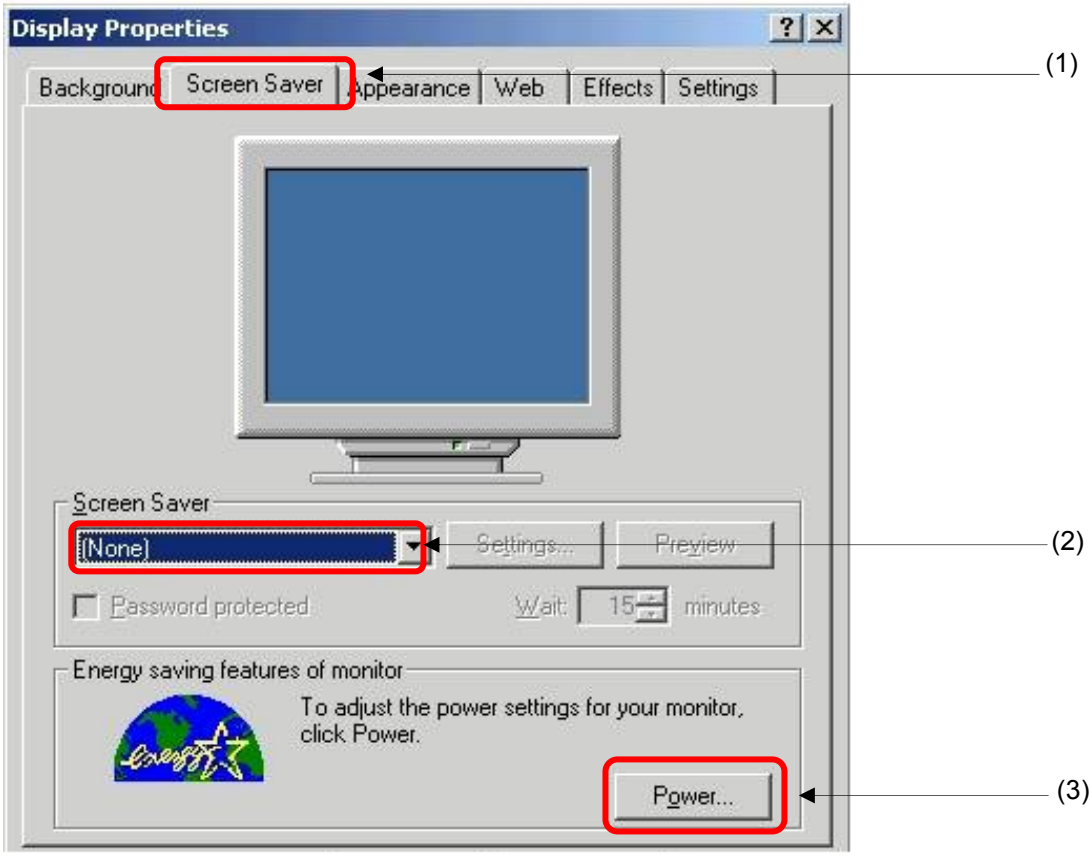


3. "Display Properties" is displayed.

(1) Click on the "Screen Saver" tab.

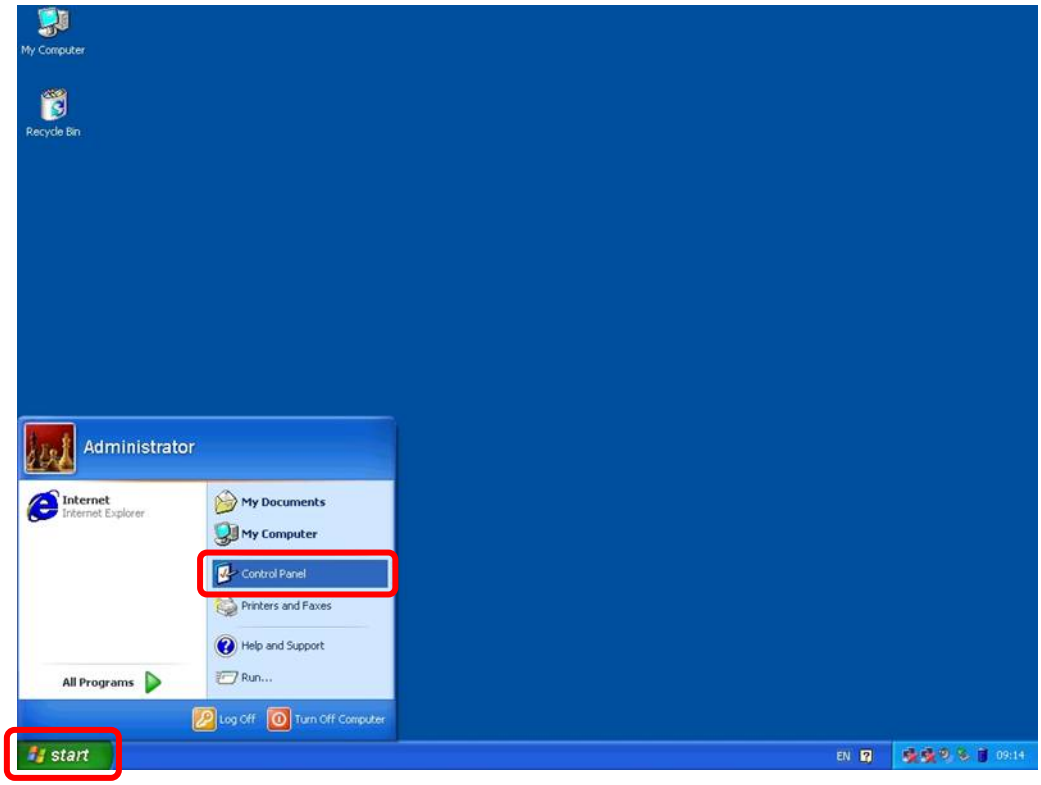
(2) Click "▼", and select "none" from the list.

(3) Click "OK".

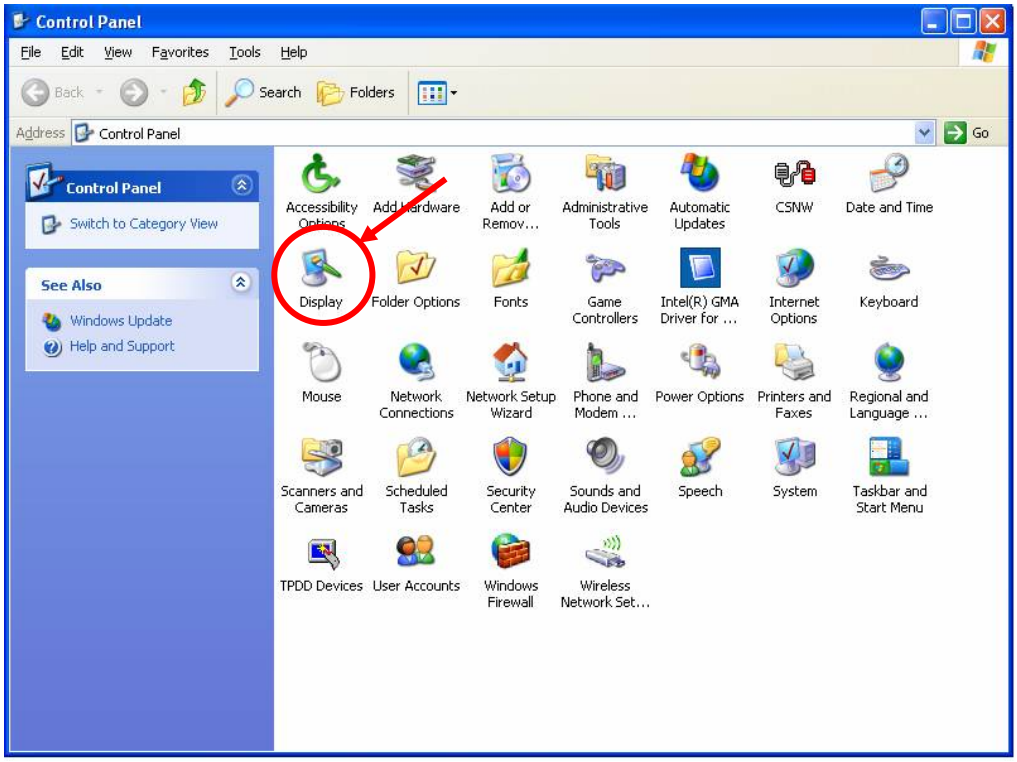


2) In the case of Windows XP

1. Select "Start"→"Control Panel".

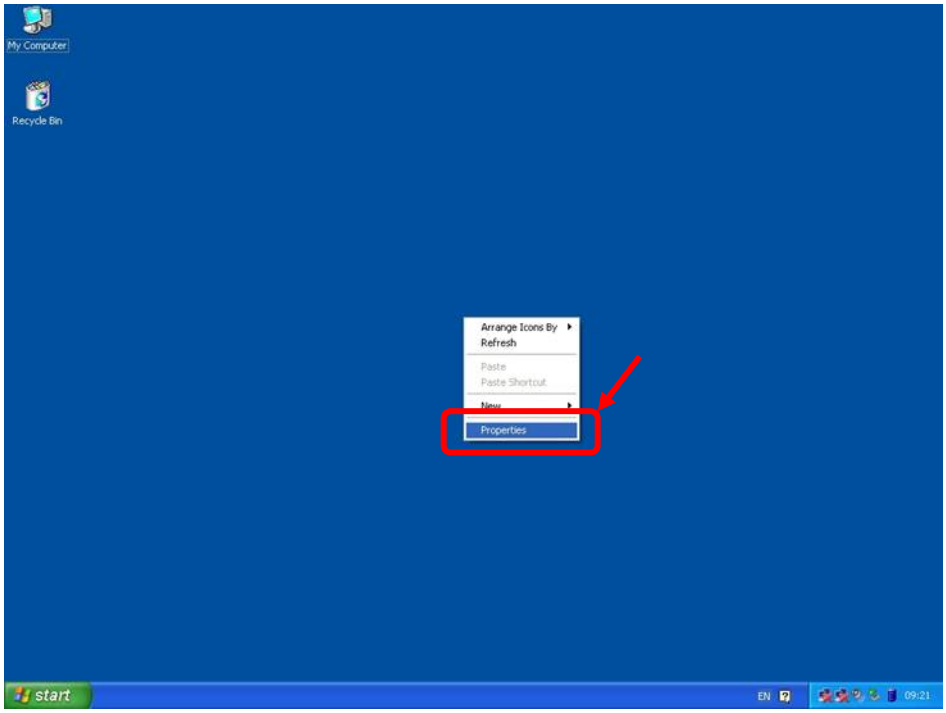


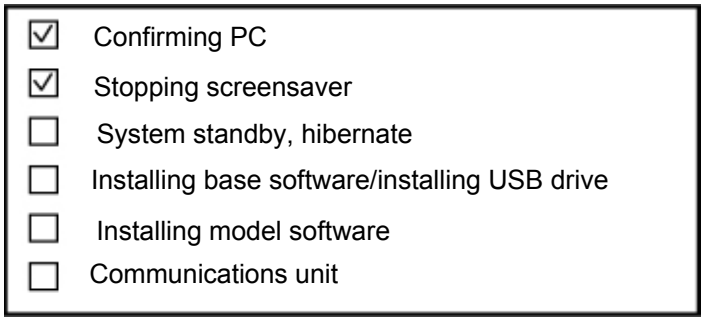
2. Select the "Display" icon.



3. Refer to the previous section 1) Windows 2000 "Display Properties" and stop the screen saver.
(Note: There may be slight variations in the screen but the tabs and list to be selected are the same.)
*Reference: "Display Properties" display (for Windows 2000 and Windows XP)

Right-click on the desktop and select "Properties".
"Display Properties" is referred to in the previous section 1) Windows 2000 "Screen Properties" — please refer to this example for details on how to stop the screen saver.



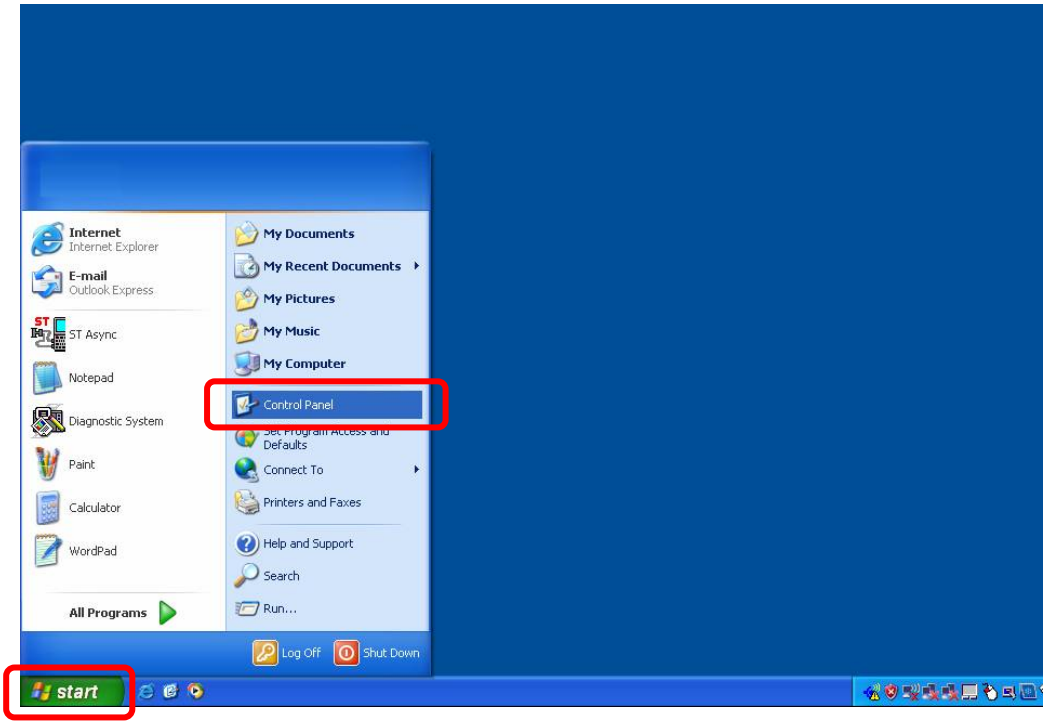


This completes the explanation for stopping the screen saver.Proceed to the remaining steps.

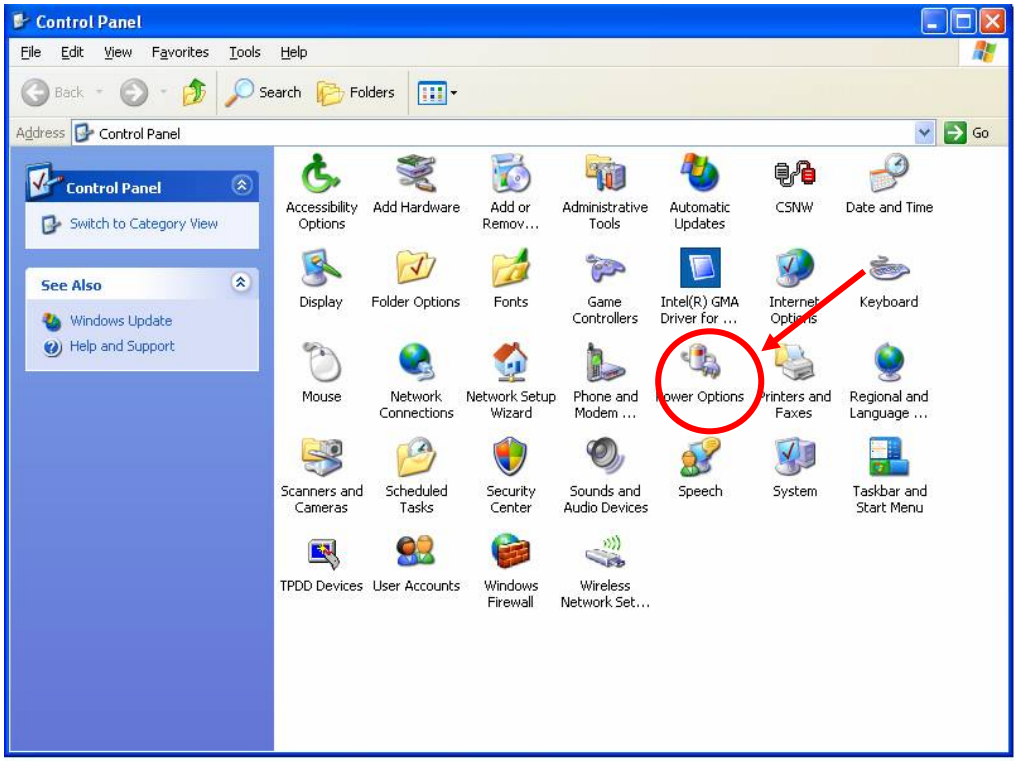
5 - 2 - 2. Settings for system standby, system hibernate

Set the PC so that the PC does not go into standby or hibernate mode when the Dr. H application software is starting up.

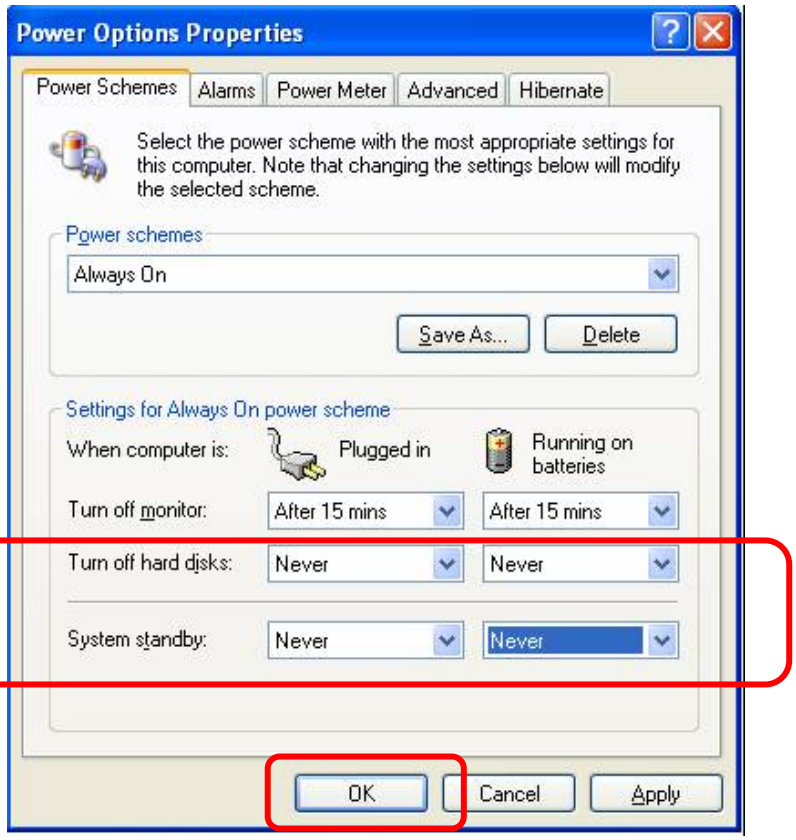
1. Select "Start"→"Control Panel".

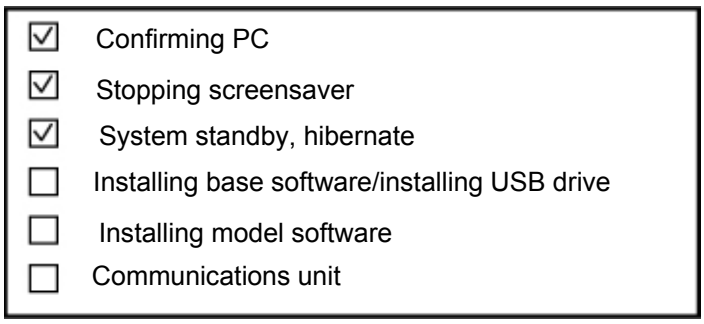


2. Double click on "Power Options Properties"



3. Set "System standby" and "System hibernates" to "Never" in the "Power Schemes" tab and click "OK".



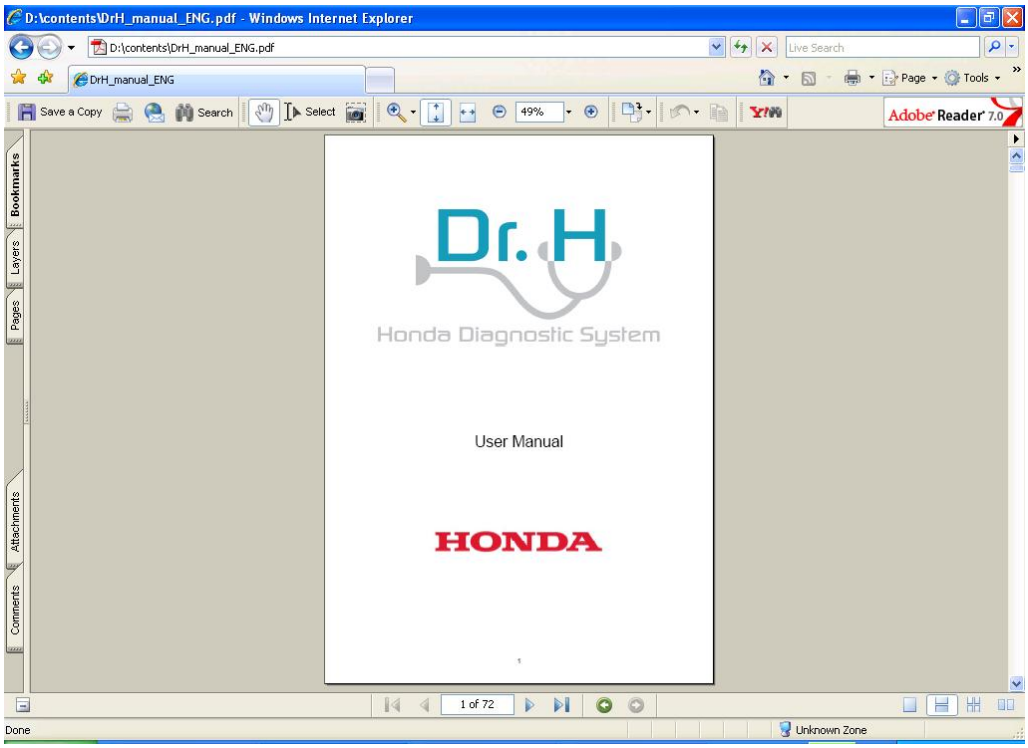


This completes the explanation for the settings for system standby and hibernate.Proceed to the remaining steps.

6. Installing Base Software

1. When you insert the base software CD into your computer, the software will start automatically and the screen shown below will appear.

Use No.1, "Manuals", to view the manual for Dr. H. Please read the manual carefully before using the software. When you click "Manuals", the manual is displayed, as shown below.

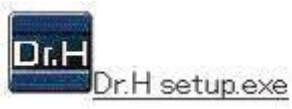


Use No.2, "Install", to install the base software onto your computer.

No.3, "Dr. H URL", shows the URL of the website where the model software can be downloaded.

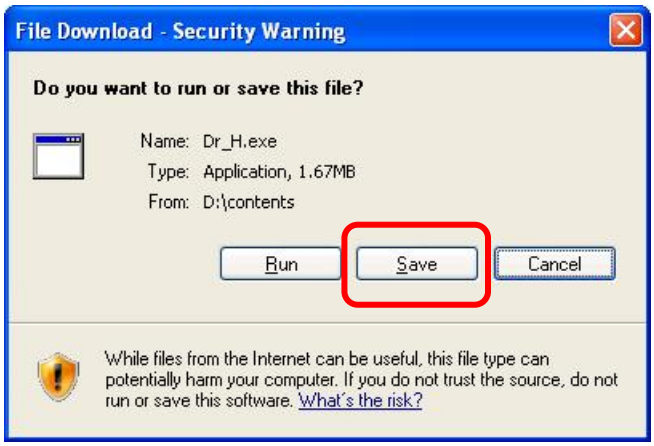
Use No.4, "Training", to view animations demonstrating the controls for Dr. H.

2. Procedure for Installing Base Software

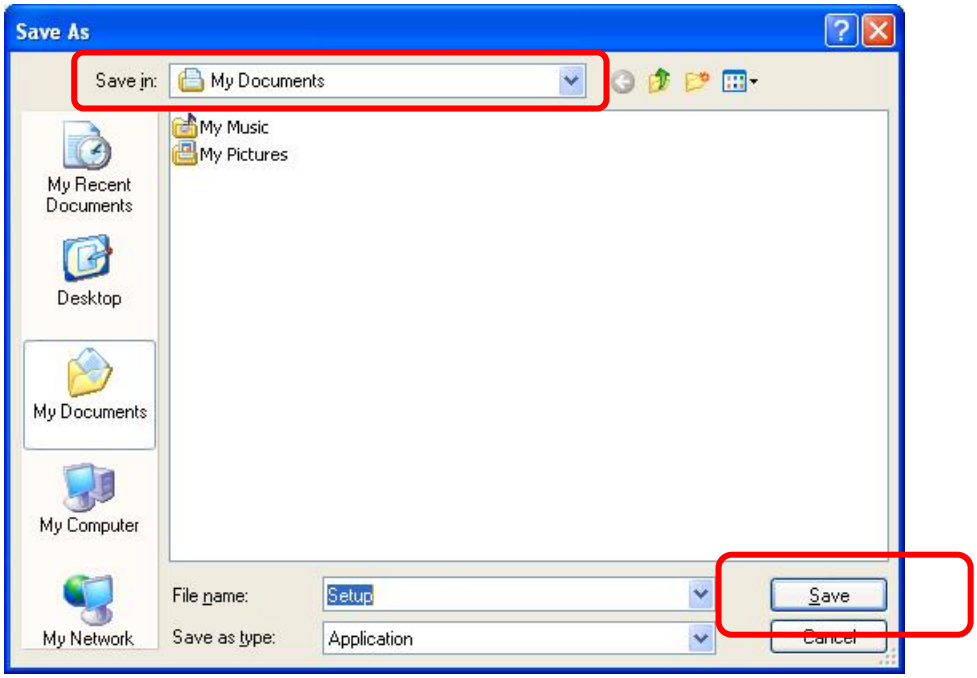
Click 

.

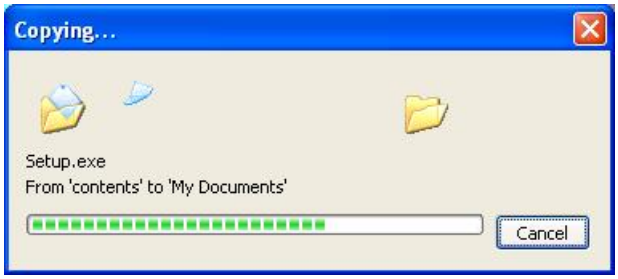
2-1. When the message shown below is displayed, click "Save (S)".


File Download - Security Warning
Do you want to run or save this file?
Name: Dr_H.exe
Type: Application, 1.67MB
From: D:\contents
Run
Save
Cancel
While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. What's the risk?

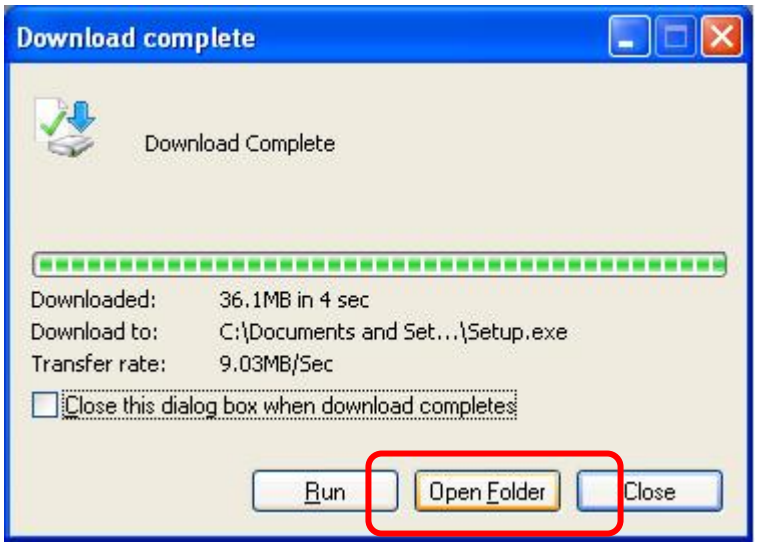
2-2. When the screen shown below is displayed, specify where you want to save to, and then click "Save (S)".



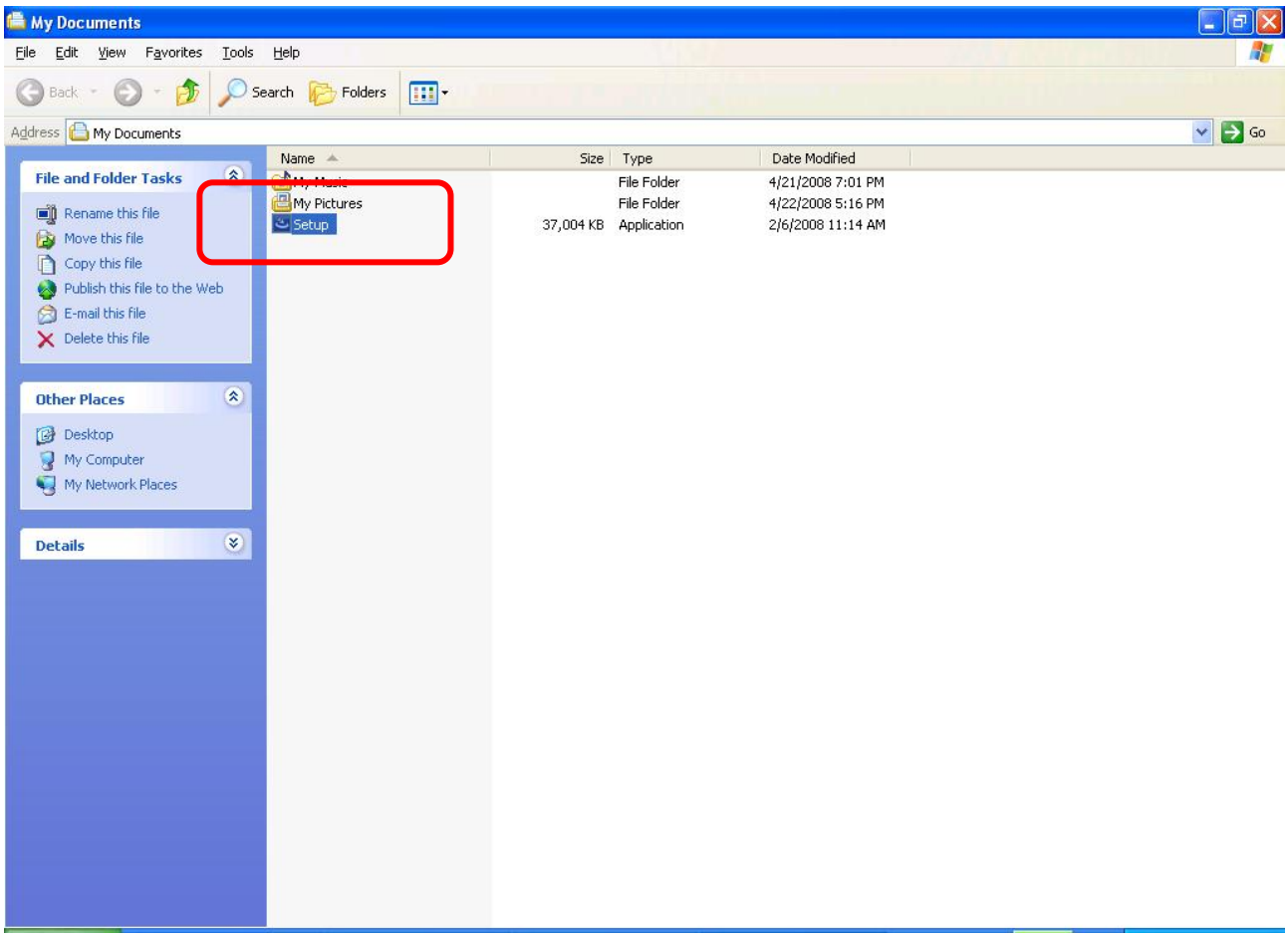
2-3. When the following message is displayed, wait for a few moments.



2-4. When the save has been completed and the following message is displayed, click "Open Folder (F)".

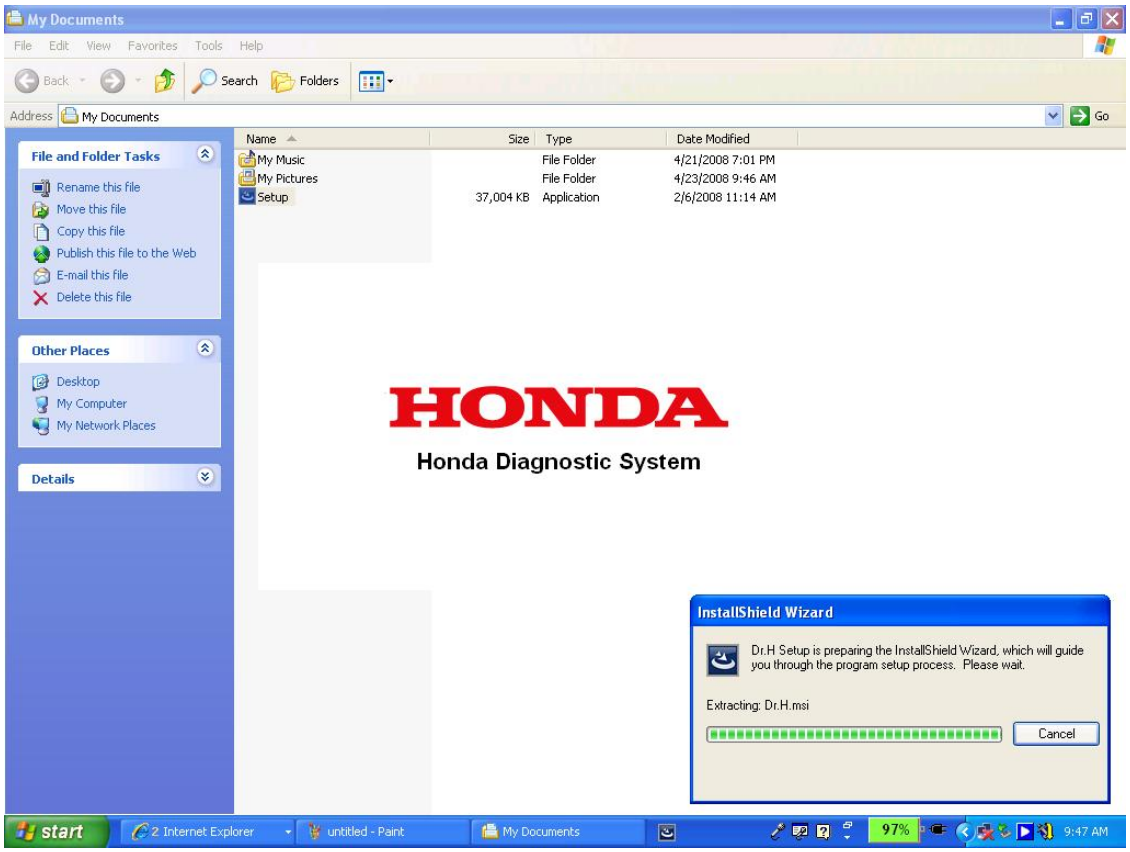


2-5. The "Setup.exe" icon will appear in the location to which you have saved. Double-click "Setup.exe".

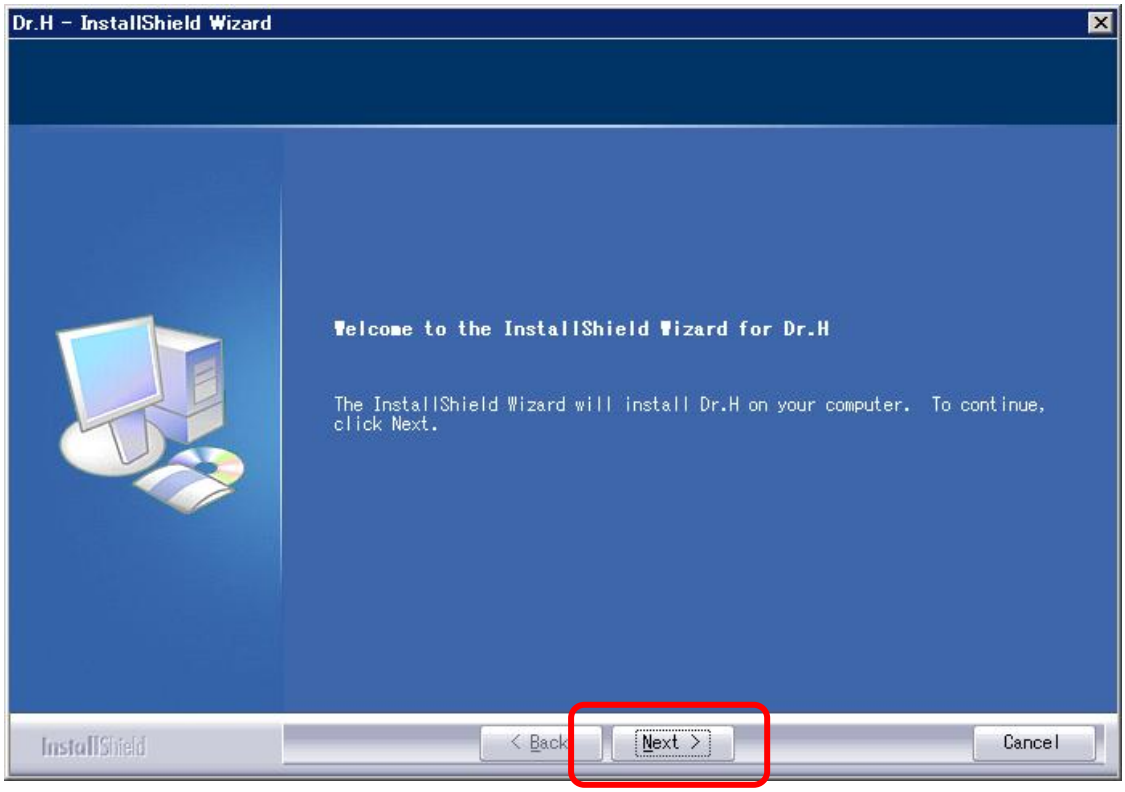


2-6. When the following message appears, select your preferred language from the pull-down menu, then click "OK".

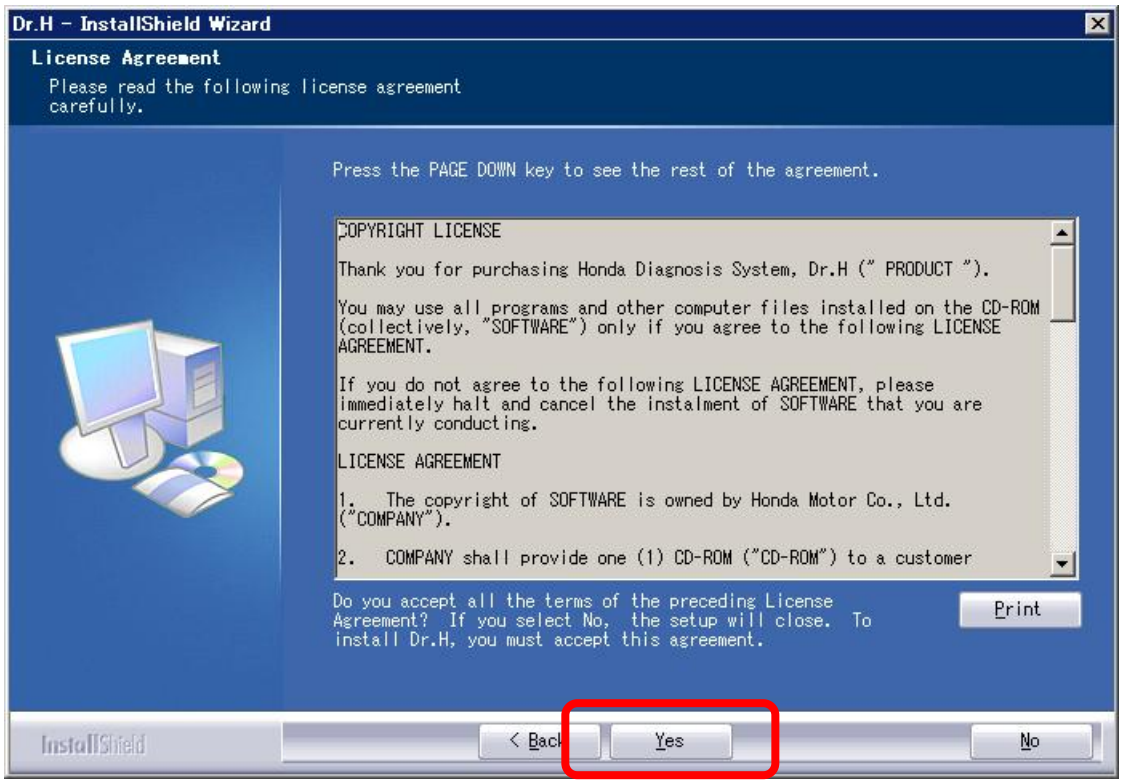
2-7. A message is displayed telling you that the system is preparing to begin installation. Wait for a few moments.



2-8. Click "Next (N)" on the screen telling you that installation is about to start.

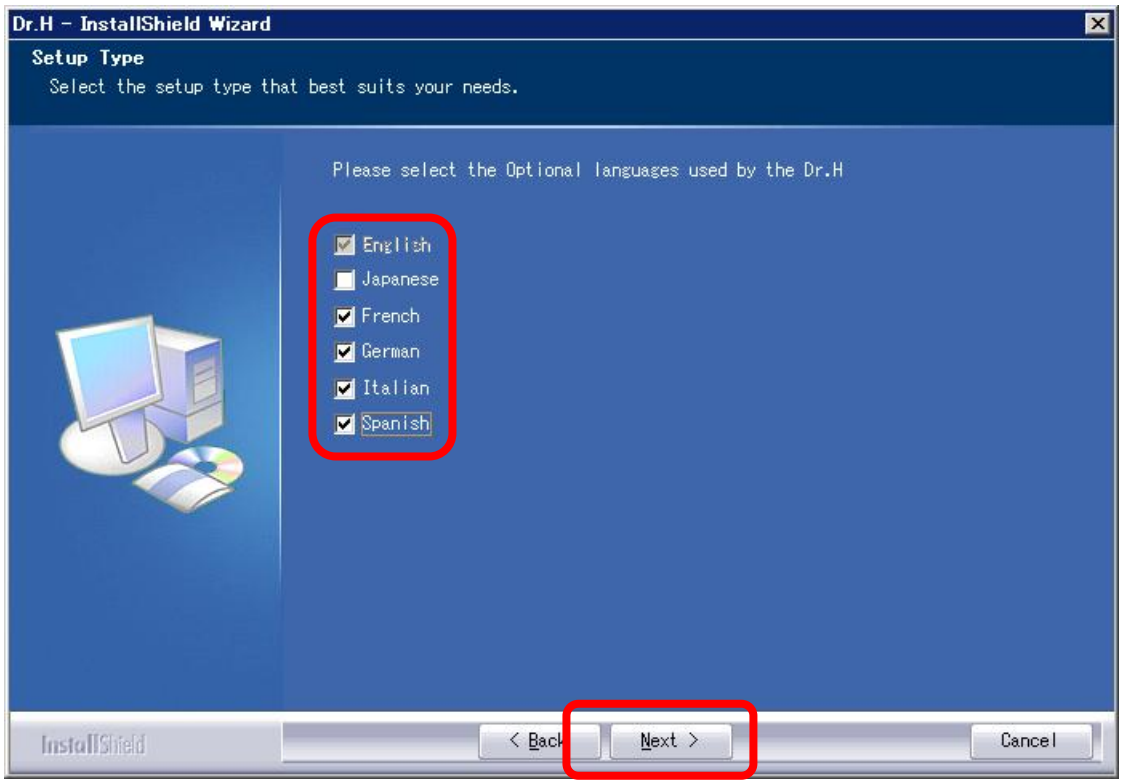

Dr.H - InstallShield Wizard
Welcome to the InstallShield Wizard for Dr.H
The InstallShield Wizard will install Dr.H on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

2-9. The user License Agreement window is displayed. Read the contents carefully. Click "Yes".


Dr.H - InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
Press the PAGE DOWN key to see the rest of the agreement.
COPYRIGHT LICENSE
Thank you for purchasing Honda Diagnosis System, Dr.H (" PRODUCT ").
You may use all programs and other computer files installed on the CD-ROM (collectively, "SOFTWARE") only if you agree to the following LICENSE AGREEMENT.
If you do not agree to the following LICENSE AGREEMENT, please immediately halt and cancel the instalment of SOFTWARE that you are currently conducting.
LICENSE AGREEMENT
1. The copyright of SOFTWARE is owned by Honda Motor Co., Ltd. ("COMPANY").
2. COMPANY shall provide one (1) CD-ROM ("CD-ROM") to a customer
Do you accept all the terms of the preceding License Agreement? If you select No, the setup will close. To install Dr.H, you must accept this agreement.
Print
InstallShield
< Back
Yes
No

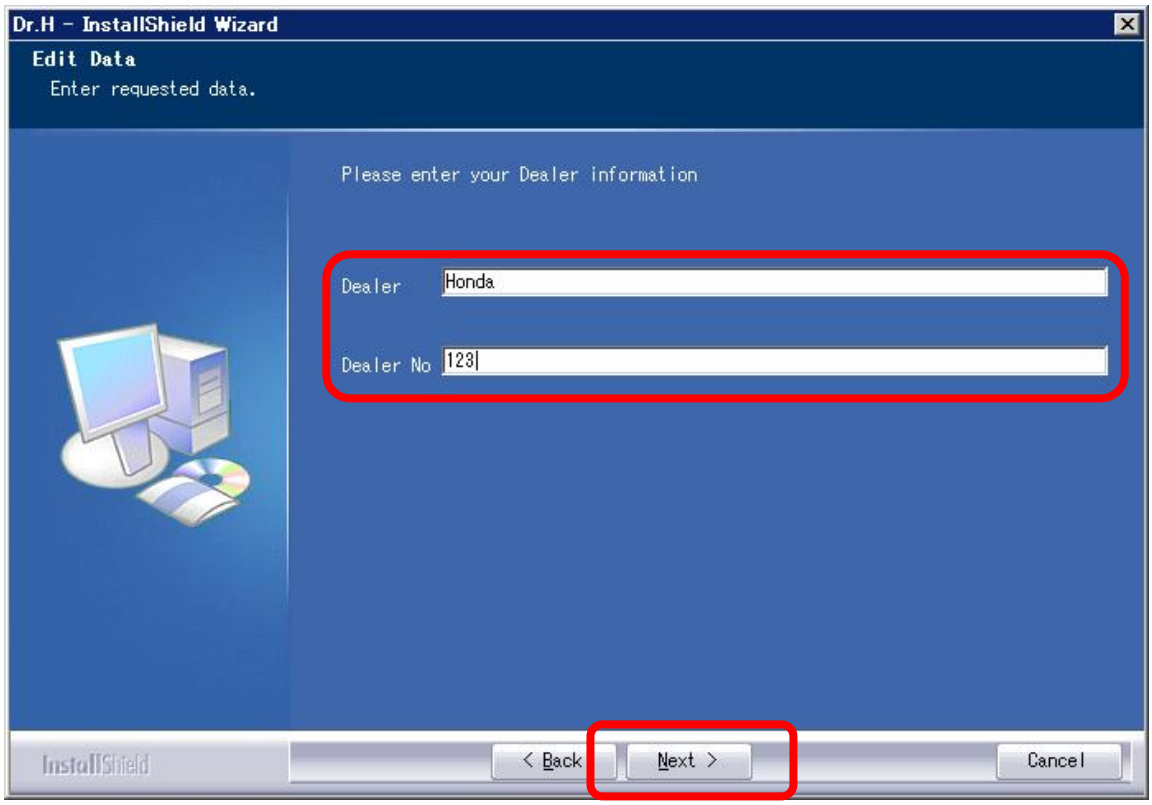
2-10. Click the checkbox for the language option you will be using, then click "Next (N)".

(Language options: It is possible to choose languages other than the main language.)

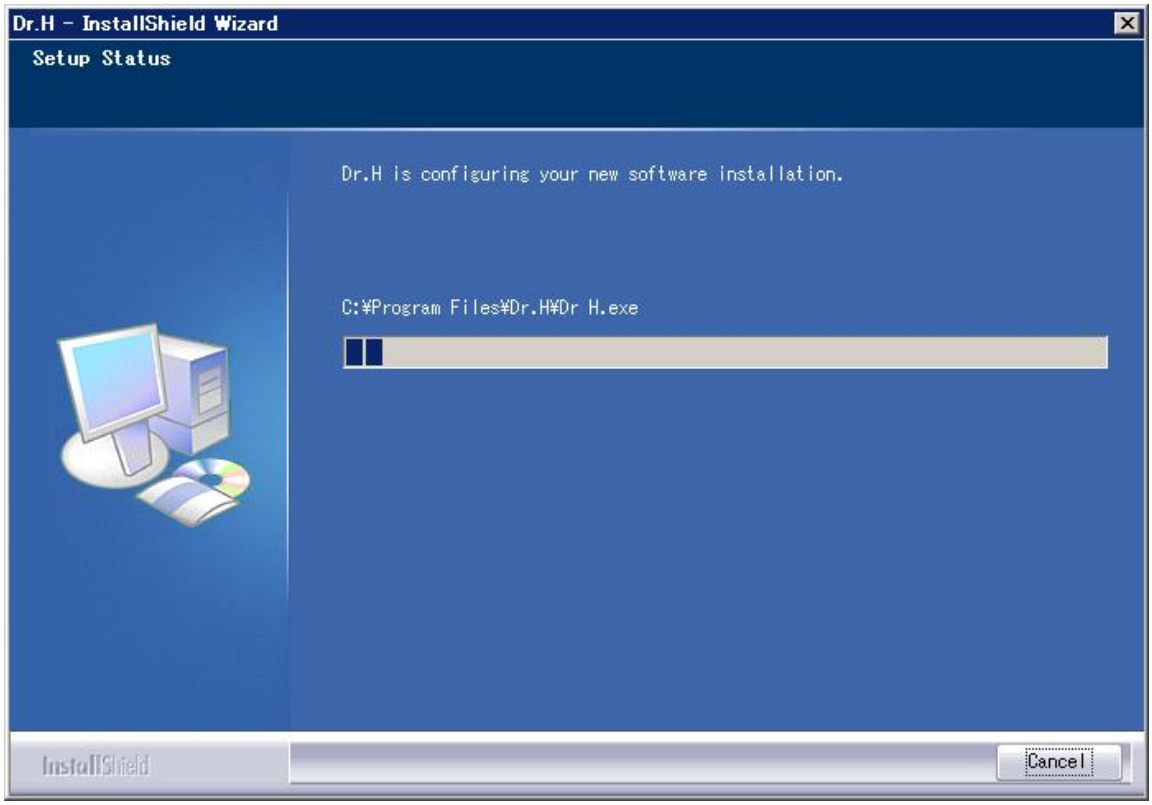


2-11. Input the store name and store code, then click "Next (N)".

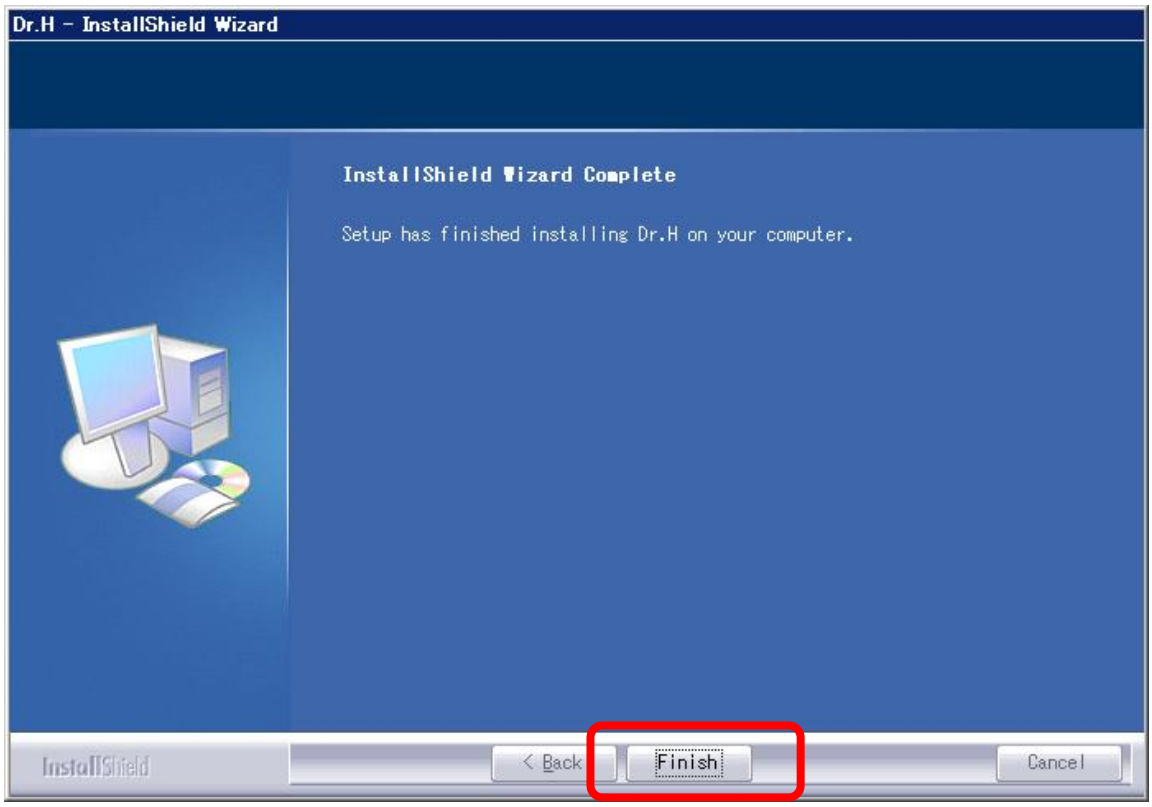
The store information you have put in will be printed on the diagnostic results.



2-12. Wait for a few moments until installation is complete.

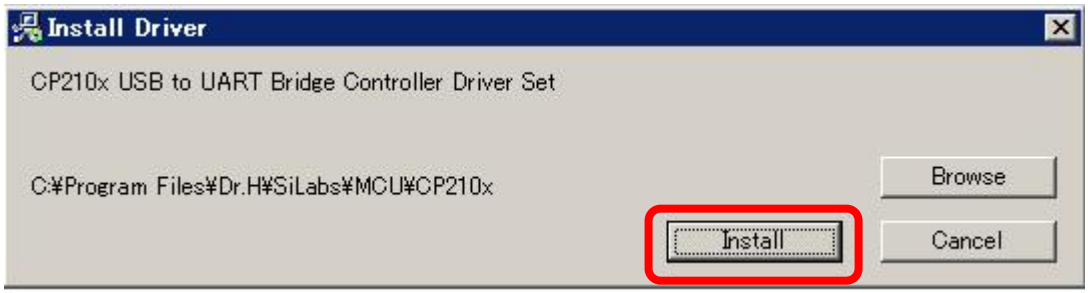


2-13. When installation is complete, click "Finish".

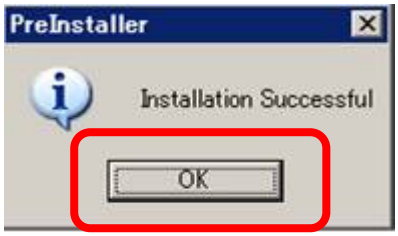


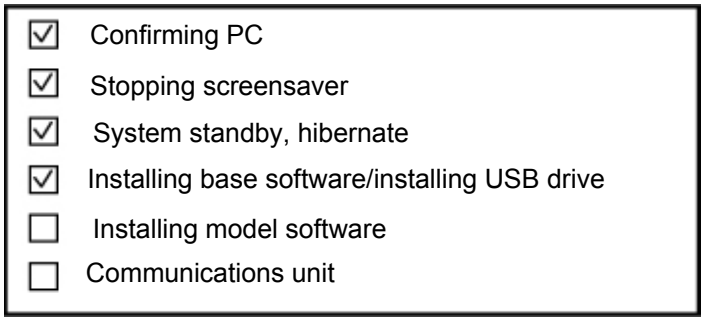
7. Installing the USB drive

1. When the base software has been installed, it continues on to commence installation of the USB drive. When this message is displayed click "Install".



2. When installation is complete, the following message is displayed. Click "OK".





This completes the explanation for installing base software/installing USB drive.

8. Installing Model Software

The model software needs to be installed on your computer after you have downloaded it from the online Dr. H user registration system. Before you can download the software, you need to register as a user.

The procedure for this is shown below.

1. Insert the base software CD into the disk drive.

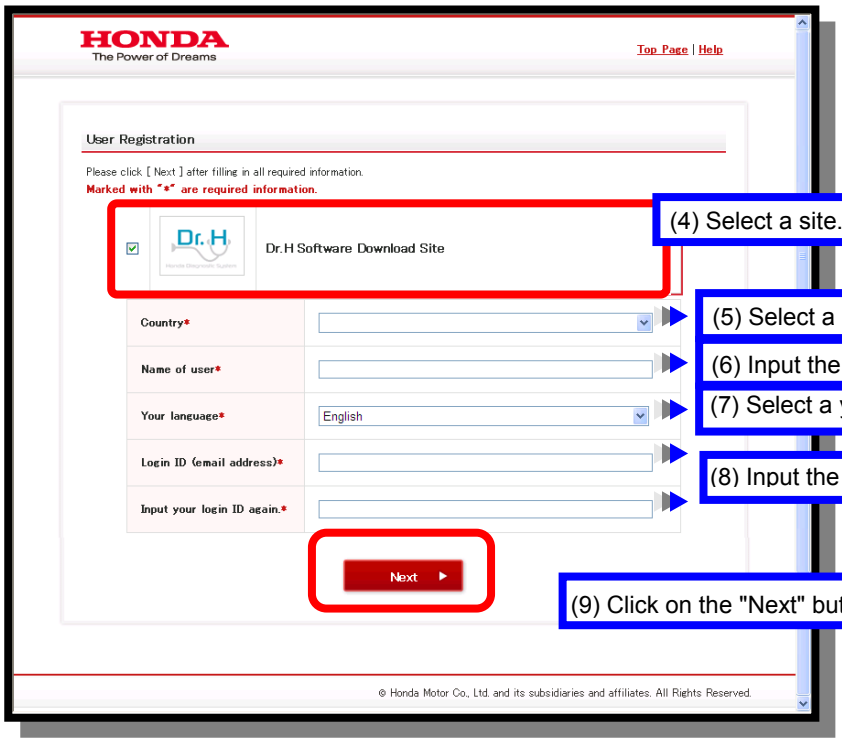
(1) Click Dr.H User's URL.

2. Perform User Pre-Registration Application

Login Screen

(2) Select a language from the list.

(3) Click on the "User Registration Application" button.


HONDA
The Power of Dreams
Top Page | Help
User Registration
Please click [Next] after filling in all required information.
Marked with "*" are required information.
Dr.H Software Download Site
Country*
Name of user*
Your language*
English
Login ID (email address)*
Input your login ID again.*
Next
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(4) Select a site.

(5) Select a country from the list.

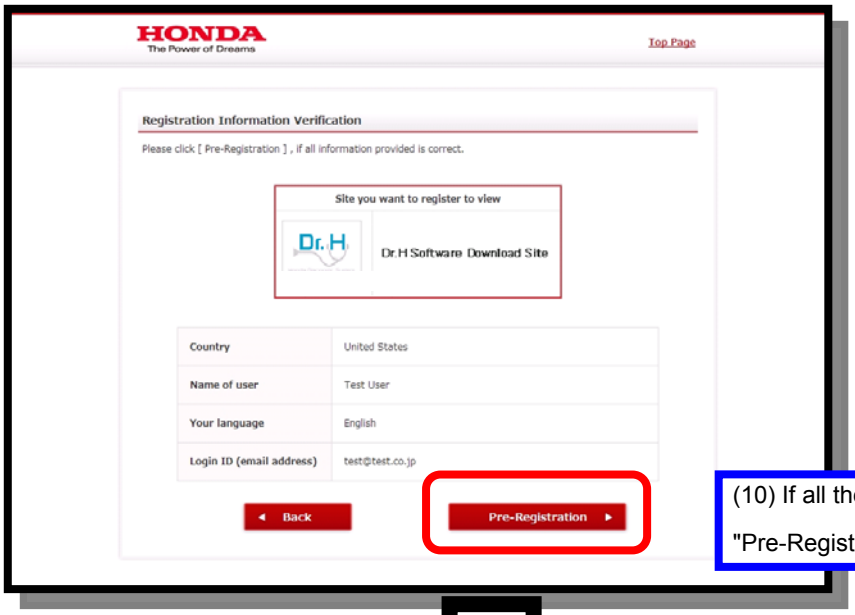
(6) Input the user's name.

(7) Select a your language from the list.

(8) Input the user's email address.

(9) Click on the "Next" button.

Registration Information Verification Screen



(10) If all the data is correct, click on the "Pre-Registration" button.

Confirmation e-mail will be sent from website.
Click the URL on its e-mail and be sure to do official Registration.
***Pre-Registration is needed to confirm whether e-mail address(ID) is correct.**

Honda S.I.P.S Pre-Registration Confirmation

We have accepted your pre-registration request from Honda S.I.P.S.(Honda Service Information Portal Site)
If you feel that you have received this mail in error, please disregard this e-mail.

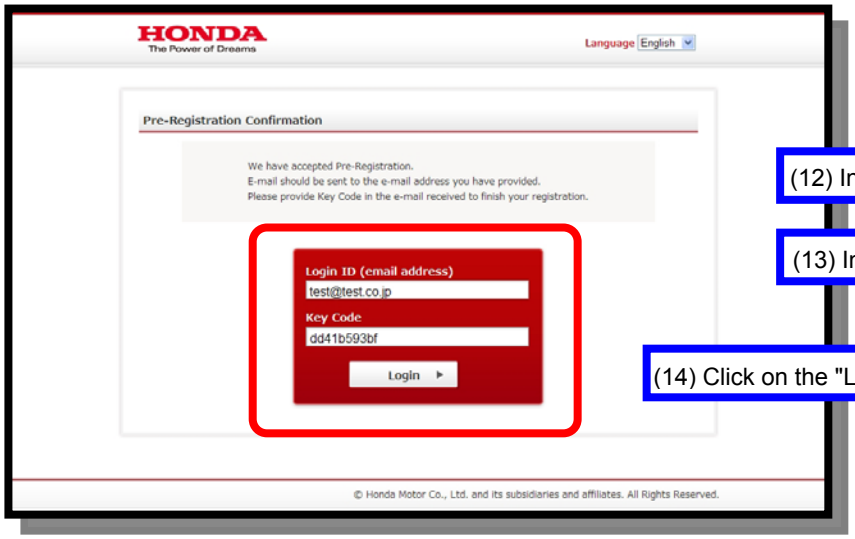
Please continue the registration process from URL provided below.
URL: http://cssportal.css-club.net/honda/Portal

(11) Click on the "URL" .

If you are continuing registration without clicking on th e provide Key Code when prompted.

Key Code: dd41b593bf

Pre-Registration Confirmation Screen


HONDA
The Power of Dreams
Language English
Pre-Registration Confirmation
We have accepted Pre-Registration.
E-mail should be sent to the e-mail address you have provided.
Please provide Key Code in the e-mail received to finish your registration.
Login ID (email address)
test@test.co.jp
Key Code
dd41b593bf
Login
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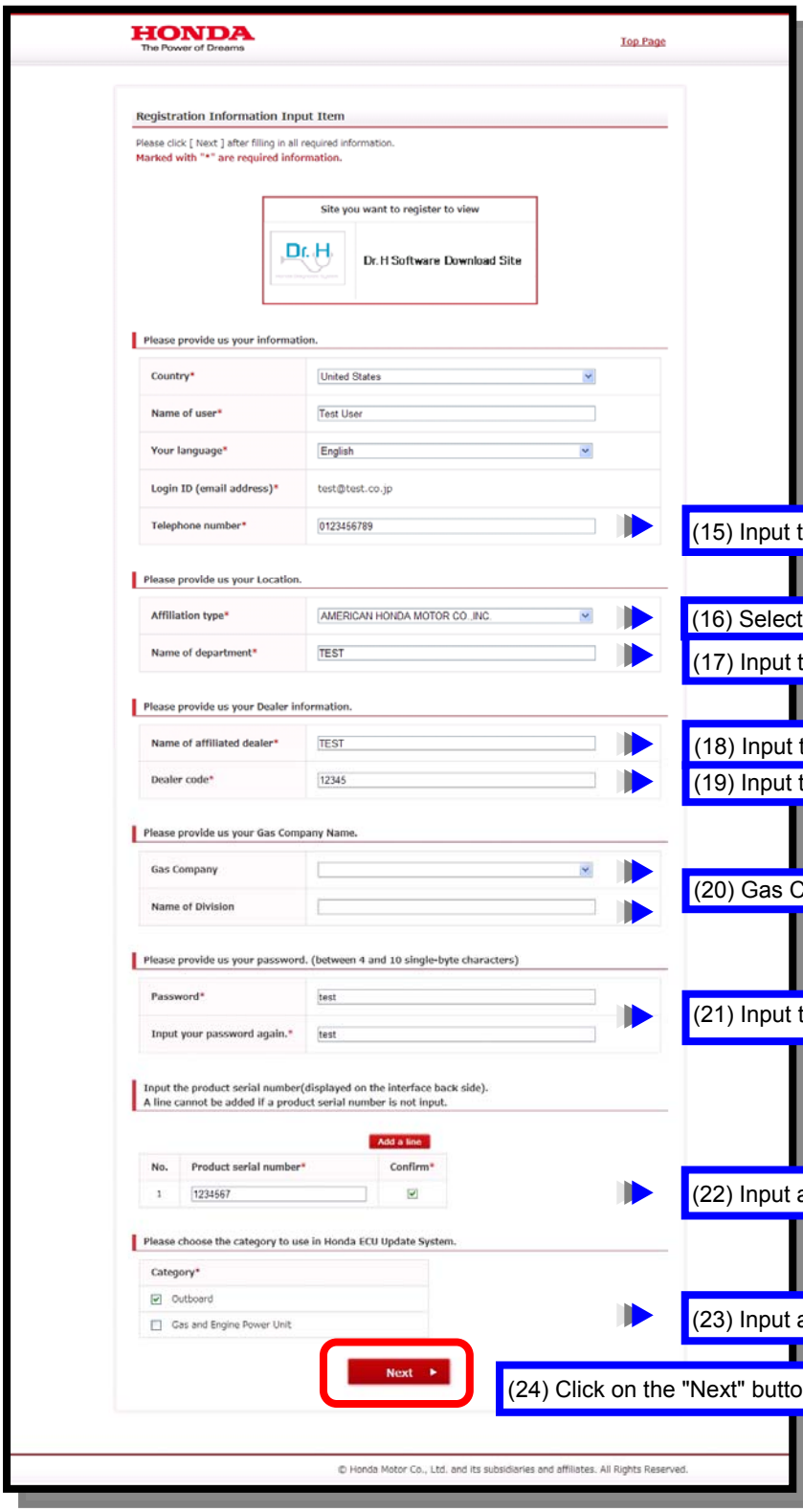
(12) Input the user's email address. (Automatic input)

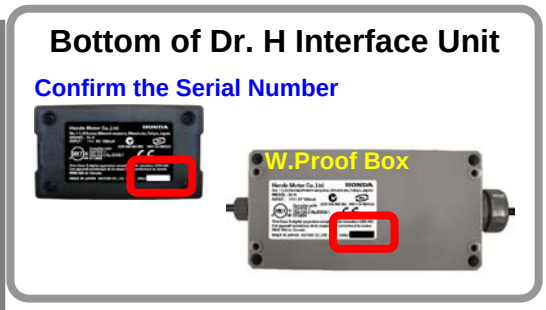
(13) Input the Key Code. (Automatic input)

(14) Click on the "Log In" button.

3. Perform User Registration Application

Registration Information Screen





(15) Input the Telephone number.

(16) Select an affiliation type from the list.

(17) Input the user's department.

(18) Input the name of the user's affiliated dealer.

(19) Input the dealer code.

(20) Gas Company only.

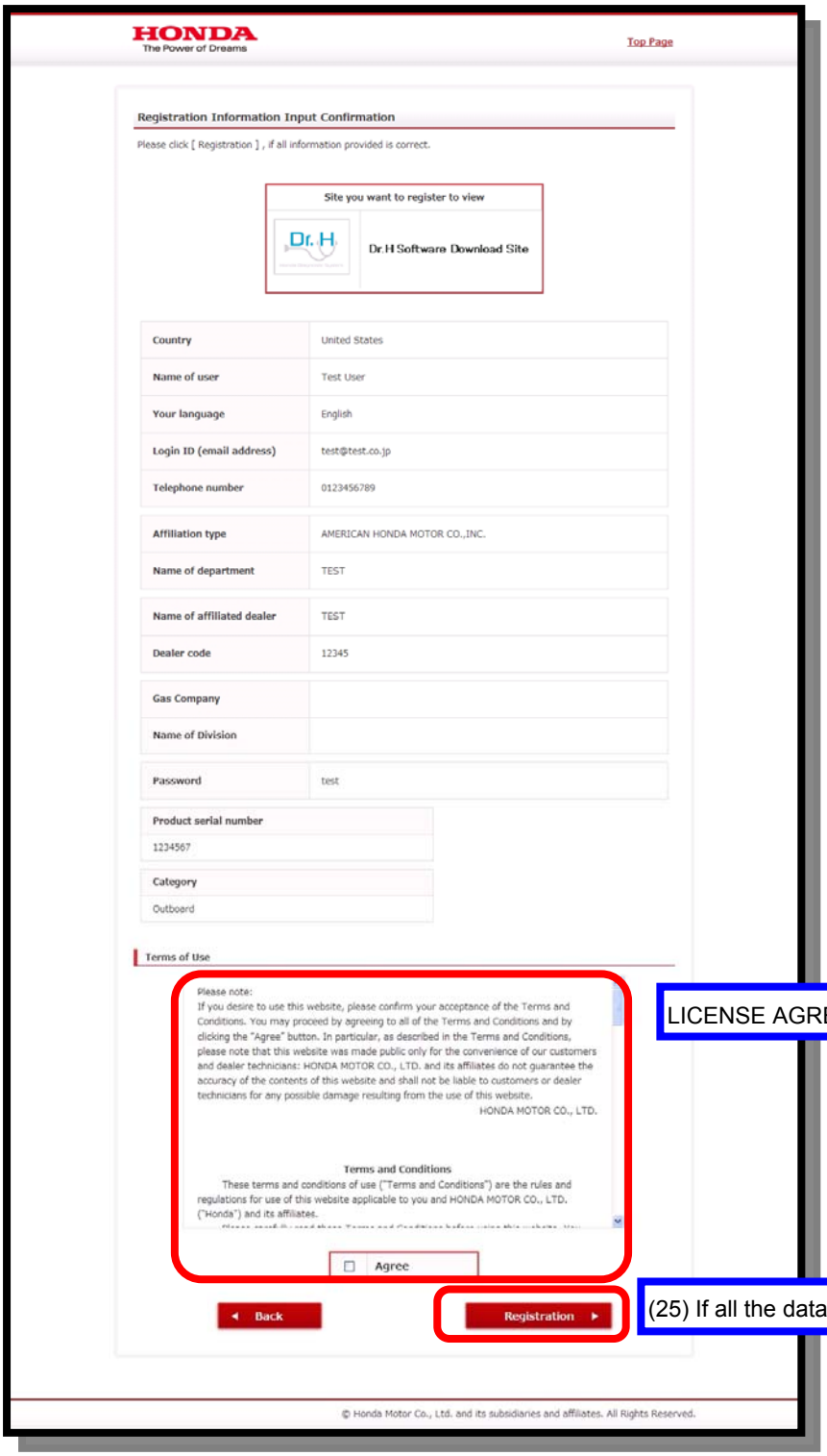
(21) Input the password.

(22) Input a seven-digit serial number.

(23) Input a category to use in H.U.S.

(24) Click on the "Next" button.

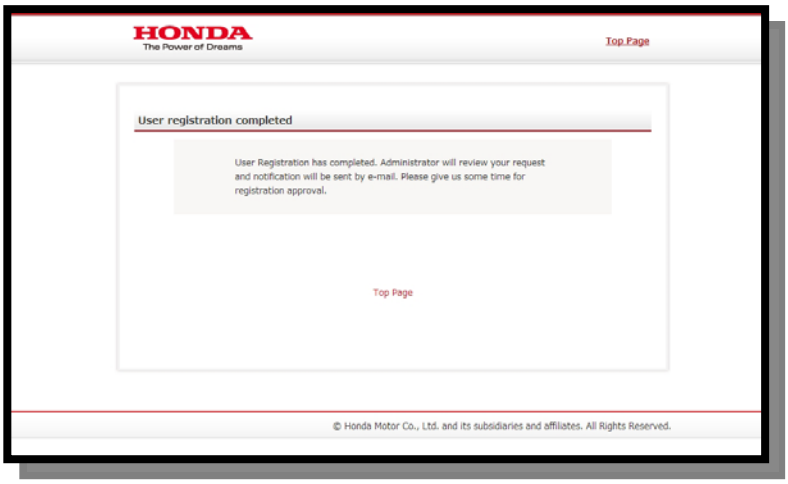
Registration Information Input Confirmation Screen


HONDA
The Power of Dreams
Top Page
Registration Information Input Confirmation
Please click [Registration] , if all information provided is correct.
Site you want to register to view
Dr.H Software Download Site
Country
United States
Name of user
Test User
Your language
English
Login ID (email address)
test@test.co.jp
Telephone number
0123456789
Affiliation type
AMERICAN HONDA MOTOR CO.,INC.
Name of department
TEST
Name of affiliated dealer
TEST
Dealer code
12345
Gas Company
Name of Division
Password
test
Product serial number
1234567
Category
Outboard
Terms of Use
Please note:
If you desire to use this website, please confirm your acceptance of the Terms and Conditions. You may proceed by agreeing to all of the Terms and Conditions and by clicking the "Agree" button. In particular, as described in the Terms and Conditions, please note that this website was made public only for the convenience of our customers and dealer technicians: HONDA MOTOR CO., LTD. and its affiliates do not guarantee the accuracy of the contents of this website and shall not be liable to customers or dealer technicians for any possible damage resulting from the use of this website.
HONDA MOTOR CO., LTD.
Terms and Conditions
These terms and conditions of use ("Terms and Conditions") are the rules and regulations for use of this website applicable to you and HONDA MOTOR CO., LTD. ("Honda") and its affiliates.
Agree
Back
Registration
© Honda Motor Co., Ltd. and its subsidiaries and affiliates. All Rights Reserved.

LICENSE AGREEMENT

(25) If all the data is correct, click on the "Registration" button.

User registration completed Screen


HONDA
The Power of Dreams
Top Page
User registration completed
User Registration has completed. Administrator will review your request and notification will be sent by e-mail. Please give us some time for registration approval.
Top Page
© Honda Motor Co., Ltd. and its subsidiaries and affiliates. All Rights Reserved.

The approver will send the applicant an email.

4. Download the Software

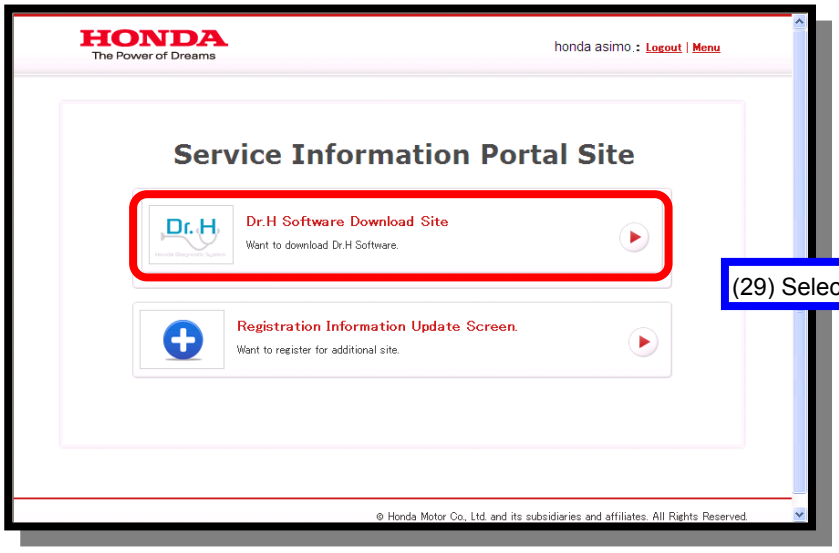
Service Information Portal Site Login Screen

(26) Select a language from the list.

(27) Input the ID and password contained in the approval email.

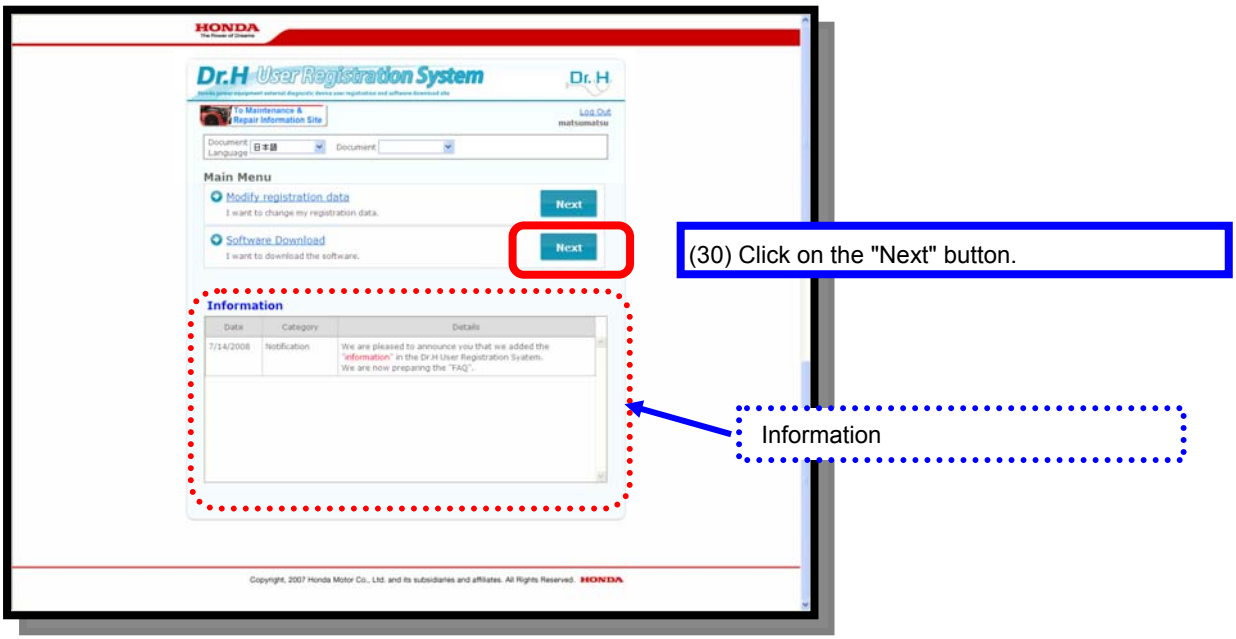
(28) Click on the "Log In" button.

Service Information Portal Site Menu Screen

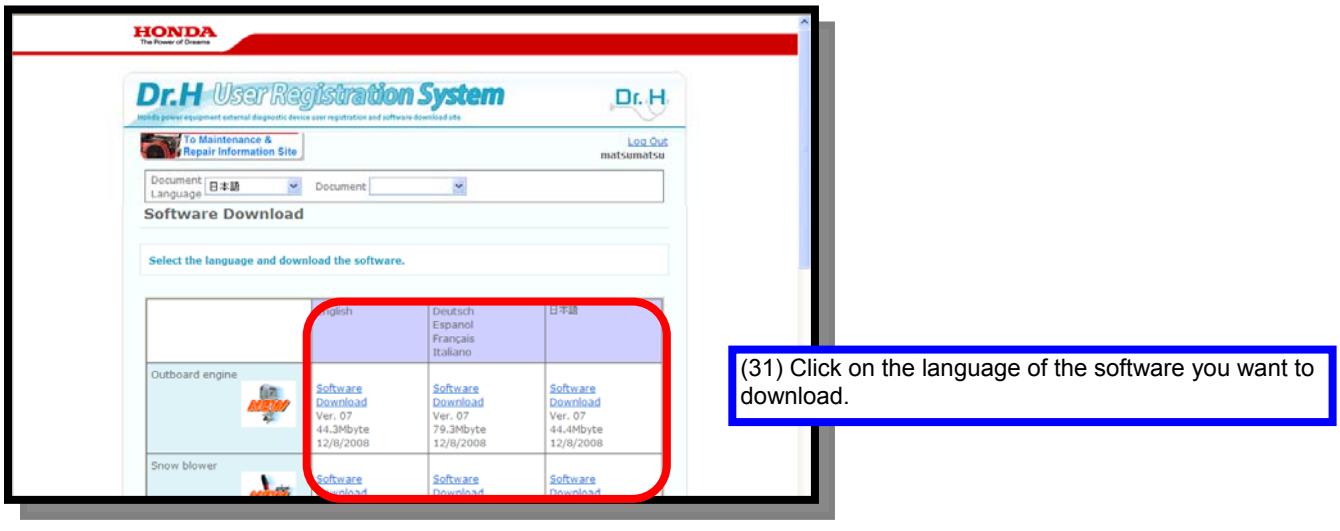

HONDA
The Power of Dreams
honda asimo : Logout | Menu
Service Information Portal Site
Dr.H Software Download Site
Want to download Dr.H Software.
Registration Information Update Screen.
Want to register for additional site.
© Honda Motor Co., Ltd. and its subsidiaries and affiliates. All Rights Reserved.

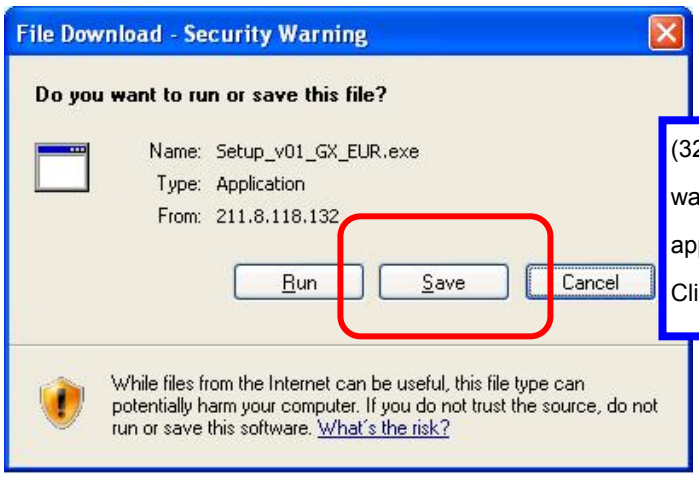
(29) Select a Site

Menu Screen

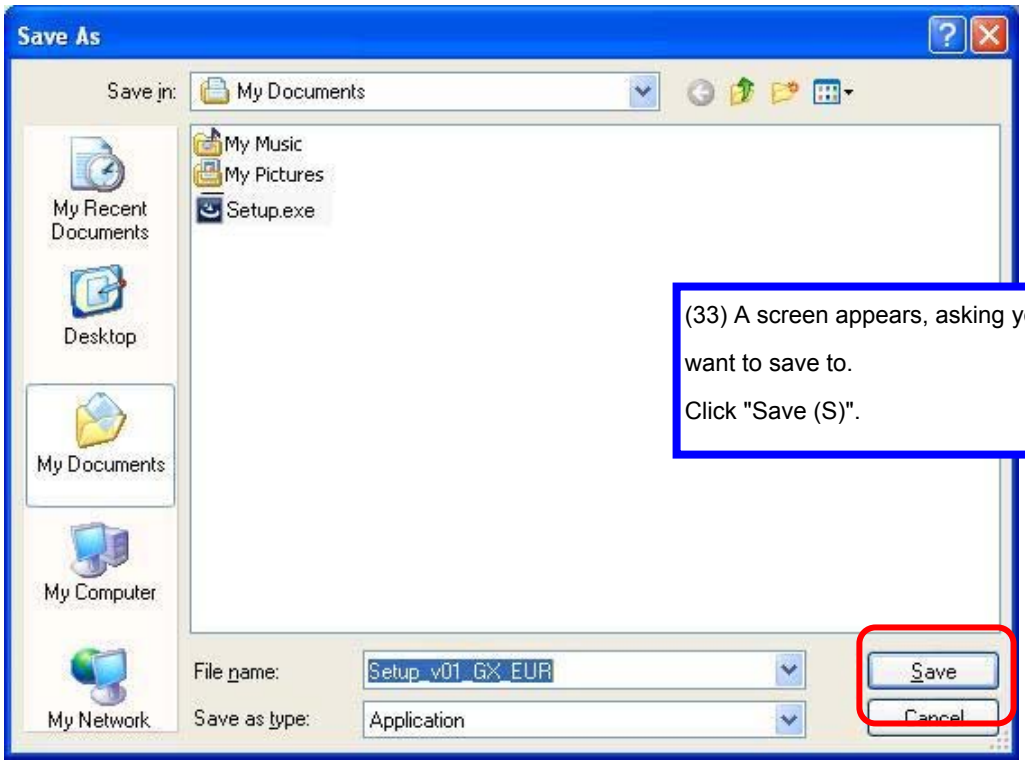


Software Download Screen

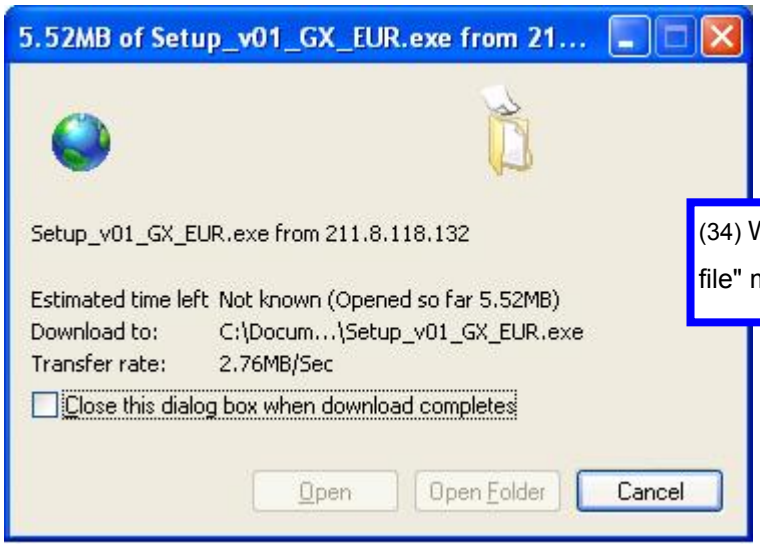



File Download - Security Warning
Do you want to run or save this file?
Name: Setup_v01_GX_EUR.exe
Type: Application
From: 211.8.118.132
Run
Save
Cancel
While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. What's the risk?

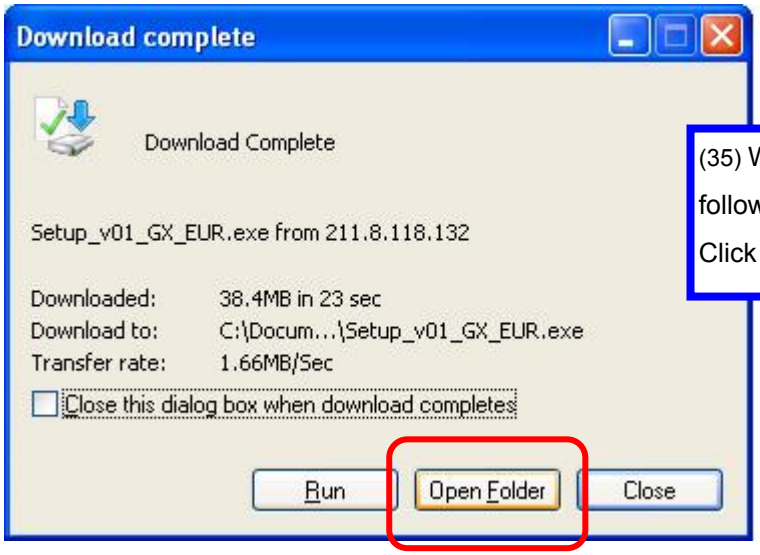
(32) When you click on the model software you want to download, the following message appears:
Click "Save (S)".



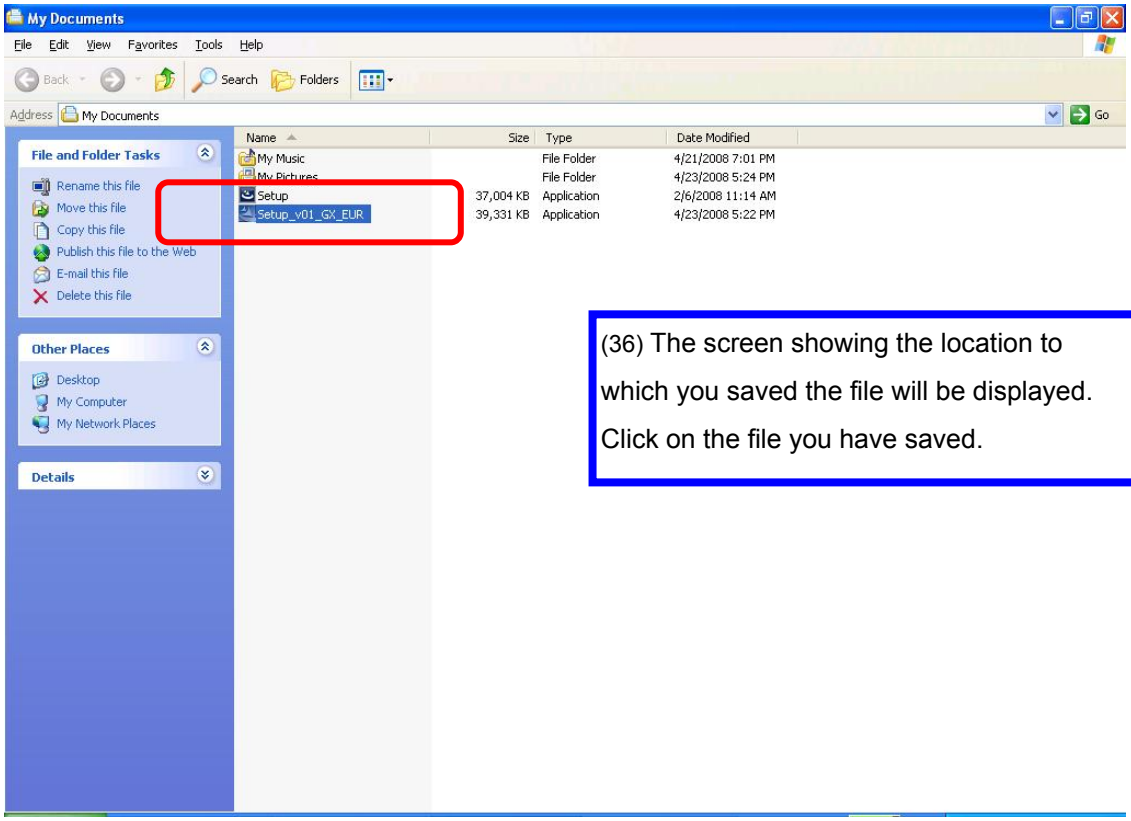
(33) A screen appears, asking you where you want to save to.
Click "Save (S)".



(34) Wait a few moments while the "saving file" message is displayed.

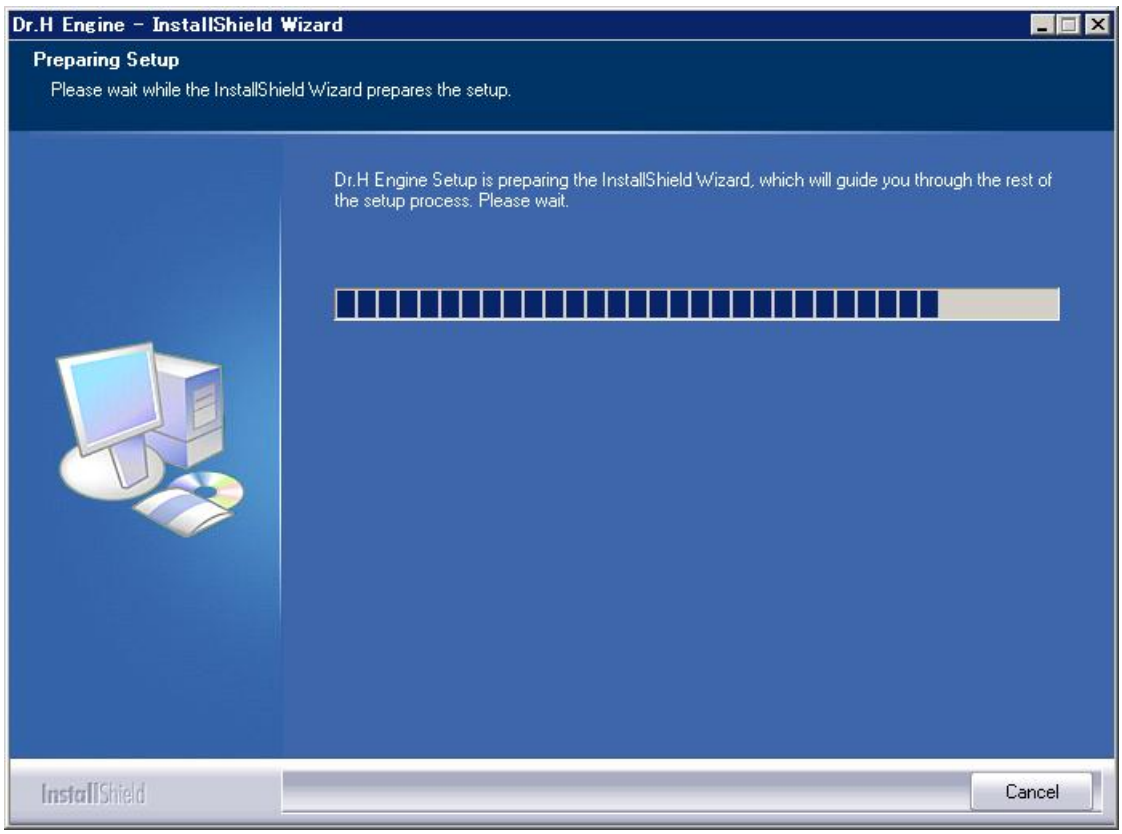


(35) When the download is complete, the following message is displayed:
Click "Open Folder (F)".

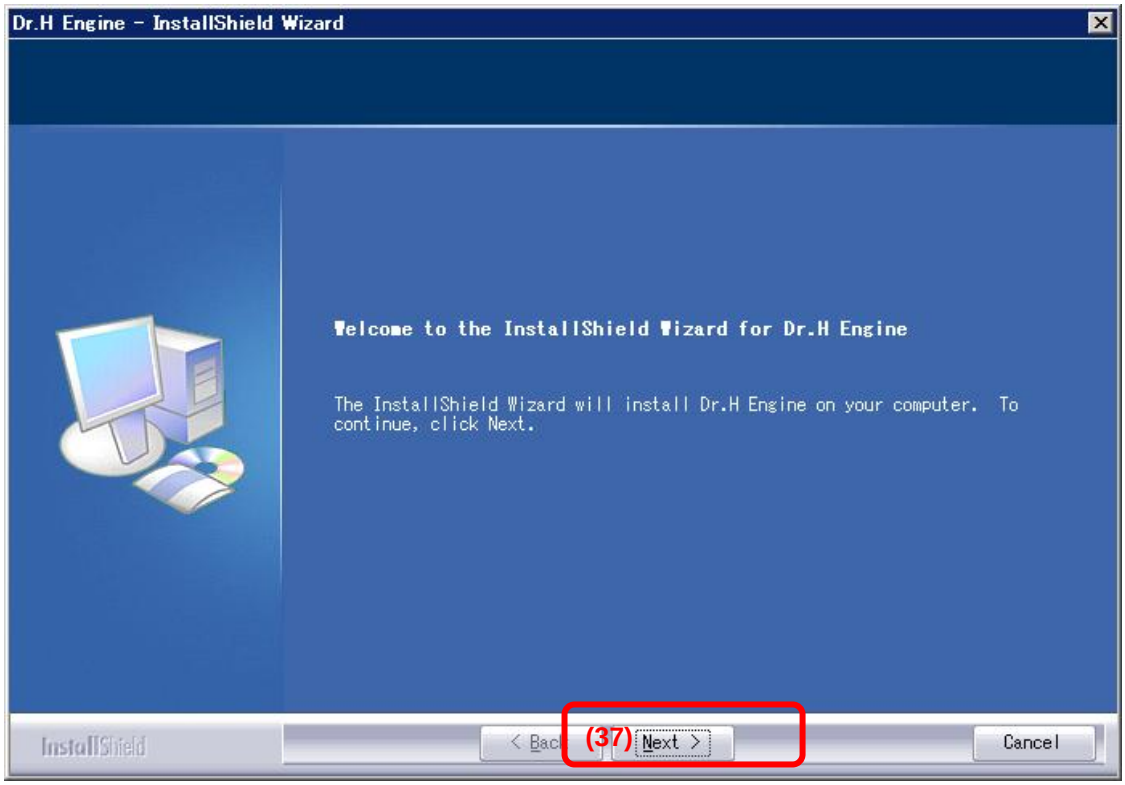


(36) The screen showing the location to which you saved the file will be displayed. Click on the file you have saved.

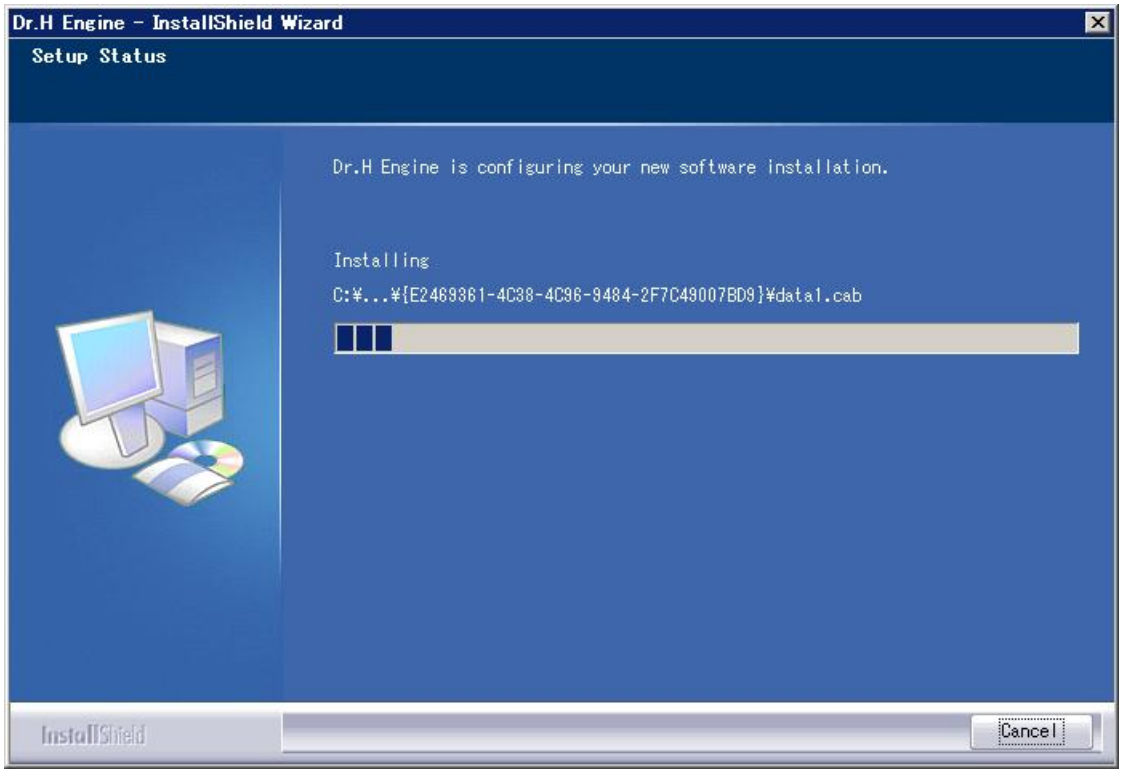
5. When the following message is displayed, wait a few moments.


Dr.H Engine – InstallShield Wizard
Preparing Setup
Please wait while the InstallShield Wizard prepares the setup.
Dr.H Engine Setup is preparing the InstallShield Wizard, which will guide you through the rest of the setup process. Please wait.
InstallShield
Cancel

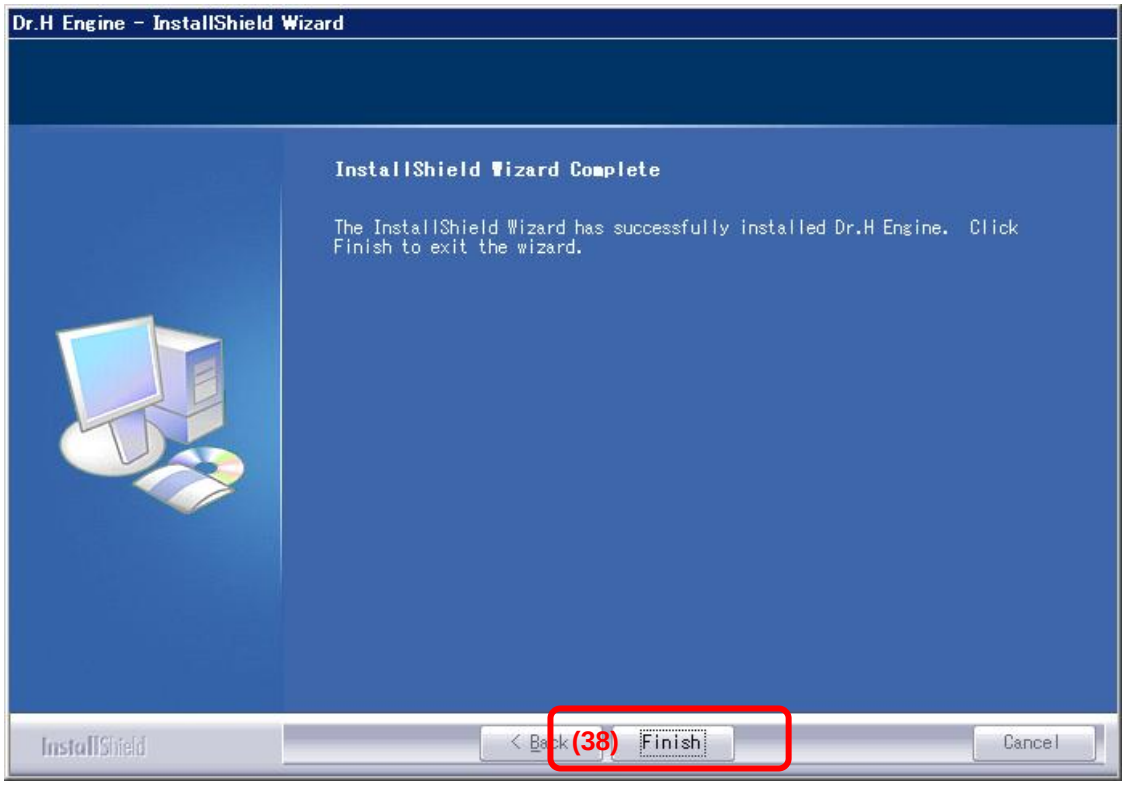
6. (37). Click "Next (N)".


Dr.H Engine - InstallShield Wizard
Welcome to the InstallShield Wizard for Dr.H Engine
The InstallShield Wizard will install Dr.H Engine on your computer. To continue, click Next.
InstallShield
< Back
(37)
Next >
Cancel

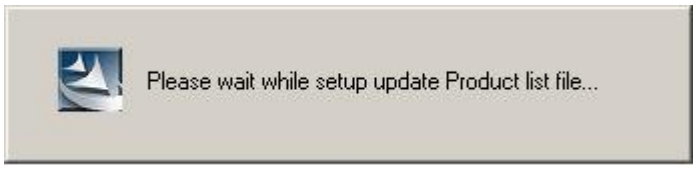
7. When the following message is displayed, wait a few moments.



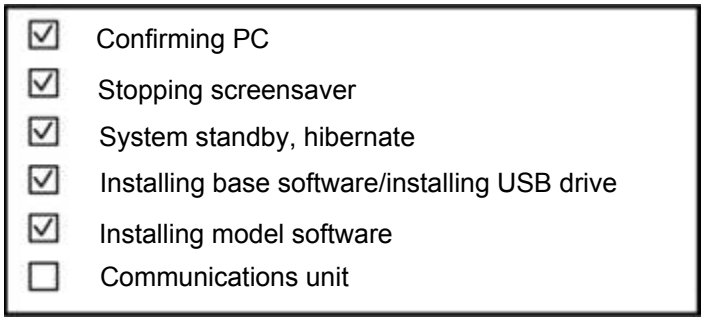
8. (38). Click "Finish (F)".



9. A message is displayed, telling you that the model software setup is in progress. When the setup is complete, the message will disappear automatically.

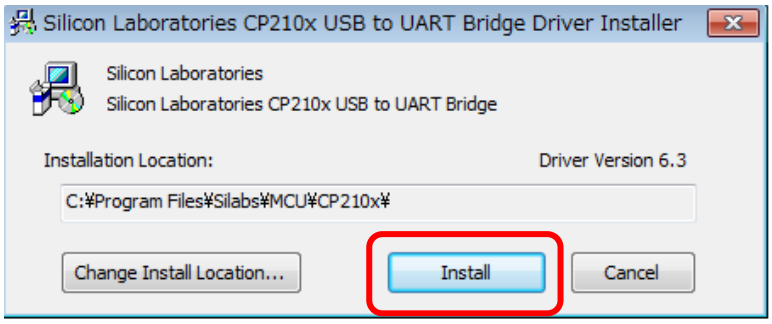


10. This completes the instructions for installing model software.



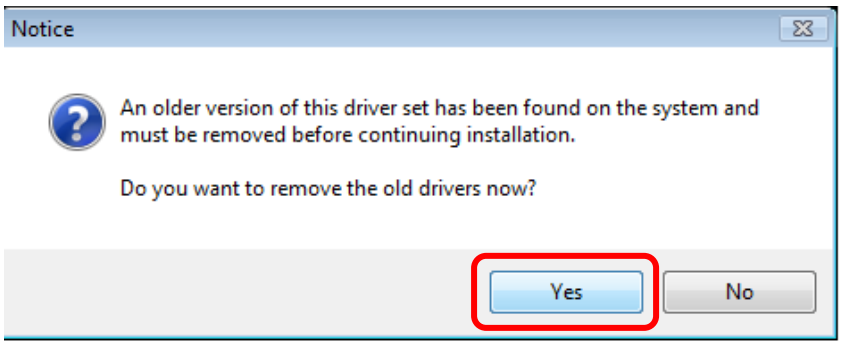
11. USB driver update after the model software installation

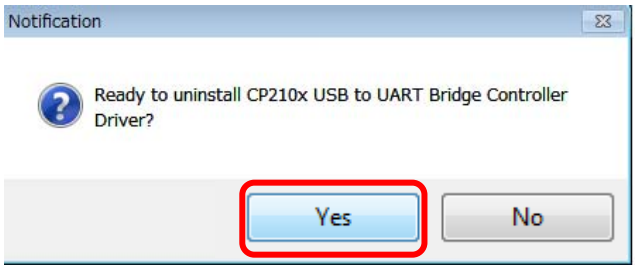
When USB driver update is required, the following message is displayed when the model software installation completes.
Click “Install” to start the USB driver installation.



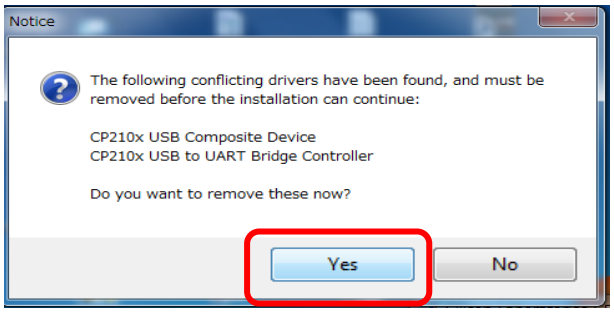
The following message ((1) or (2)) is displayed.　Click “Yes” if the older version of the driver set can be removed.

(1)

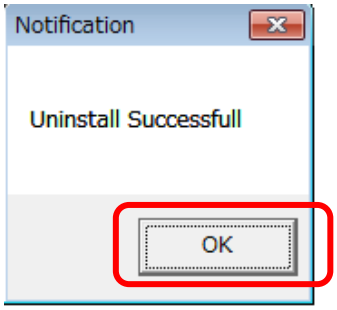

Notice
An older version of this driver set has been found on the system and must be removed before continuing installation.
Do you want to remove the old drivers now?
Yes
No



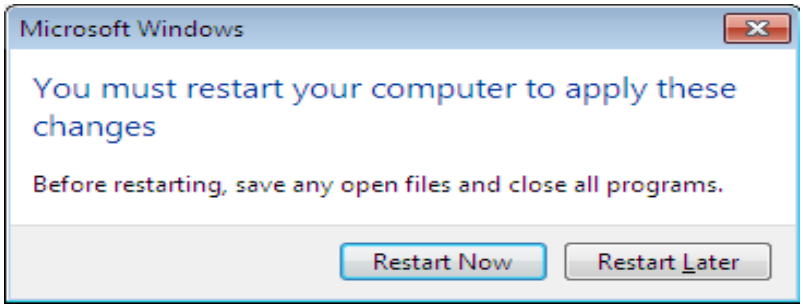
(2)


Notice
The following conflicting drivers have been found, and must be removed before the installation can continue:
CP210x USB Composite Device
CP210x USB to UART Bridge Controller
Do you want to remove these now?
Yes
No

Click “OK” to go to next step.



Restart your computer to apply these changes.


Microsoft Windows
You must restart your computer to apply these changes
Before restarting, save any open files and close all programs.
Restart Now
Restart Later

9. Communication unit settings

Windows 2000, Windows XP

Connect the USB cable and the communication unit to the PC.

The communication unit setup involves preparations 1 and 2 below; both steps must be performed.

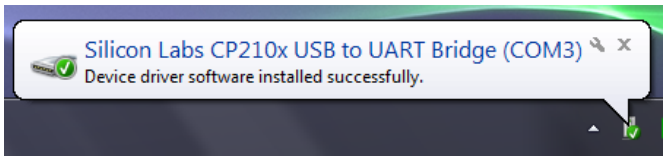
In Preparation 1, the PC is made aware of the communication unit.

In Preparation 2, the COM port is automatically allocated.

Windows Vista, Windows 7

Connect the USB cable and the communication unit to the PC.

The software will be installed automatically.



The following steps are unnecessary.

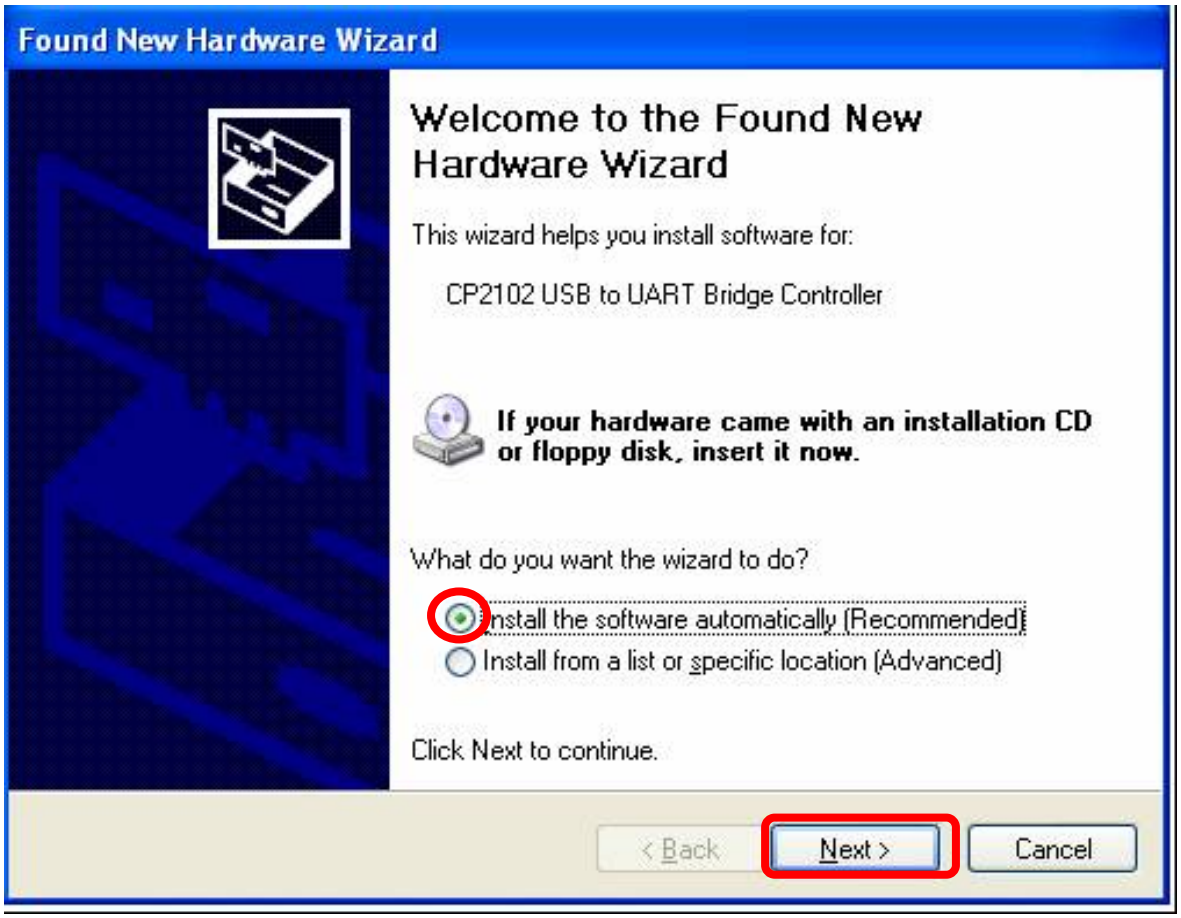
9 - 1. Communication unit settings: Installation of device driver

1. Start up the PC and connect the communication unit. The following window is displayed.

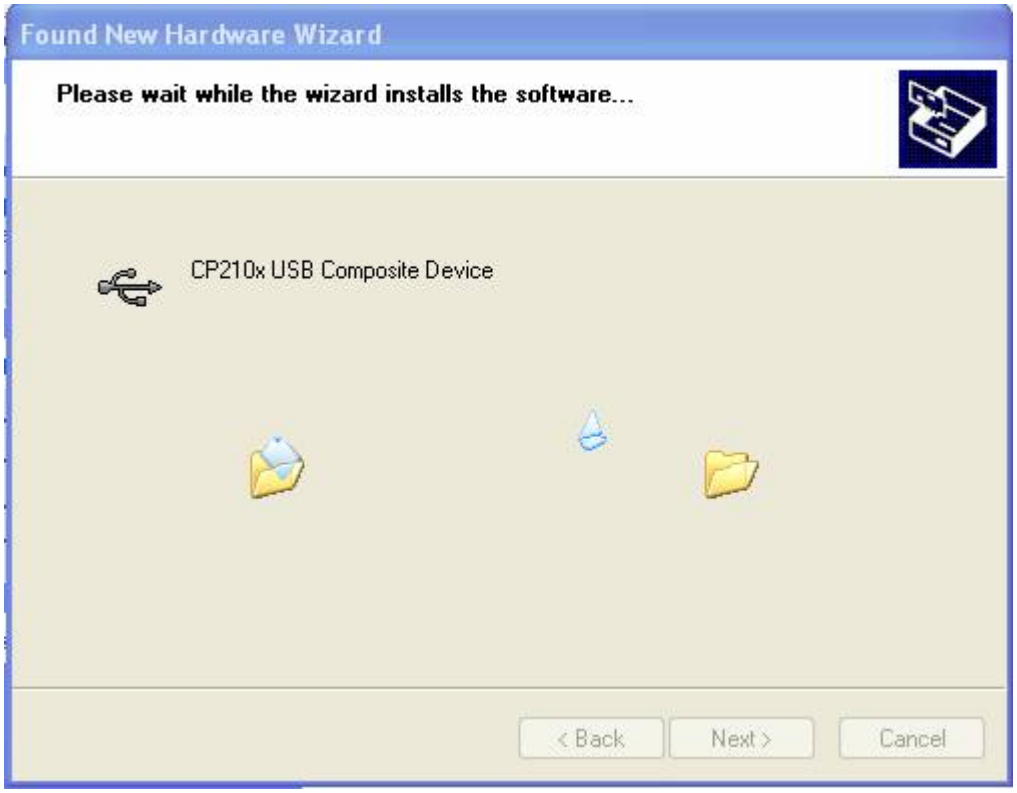
・ Select "No, not this time" and click "Next".

Hardware Update Wizard
Welcome to the Hardware Update Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

2. Check that "Install the software automatically (Recommended)" is selected and click "Next".


Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
CP2102 USB to UART Bridge Controller
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

3. The following window is displayed. Wait until installation is complete.



4. The following window is displayed. Click on "Continue Anyway".

Hardware Installation
The software you are installing for this hardware:
CP210x USB Composite Device
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

5. The following window is displayed. Wait until installation is complete.

6. The following window is displayed. Click on "Finish".

Communication unit settings - installation of device driver is complete.

Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
CP210x USB Composite Device
Click Finish to close the wizard.
< Back
Finish
Cancel

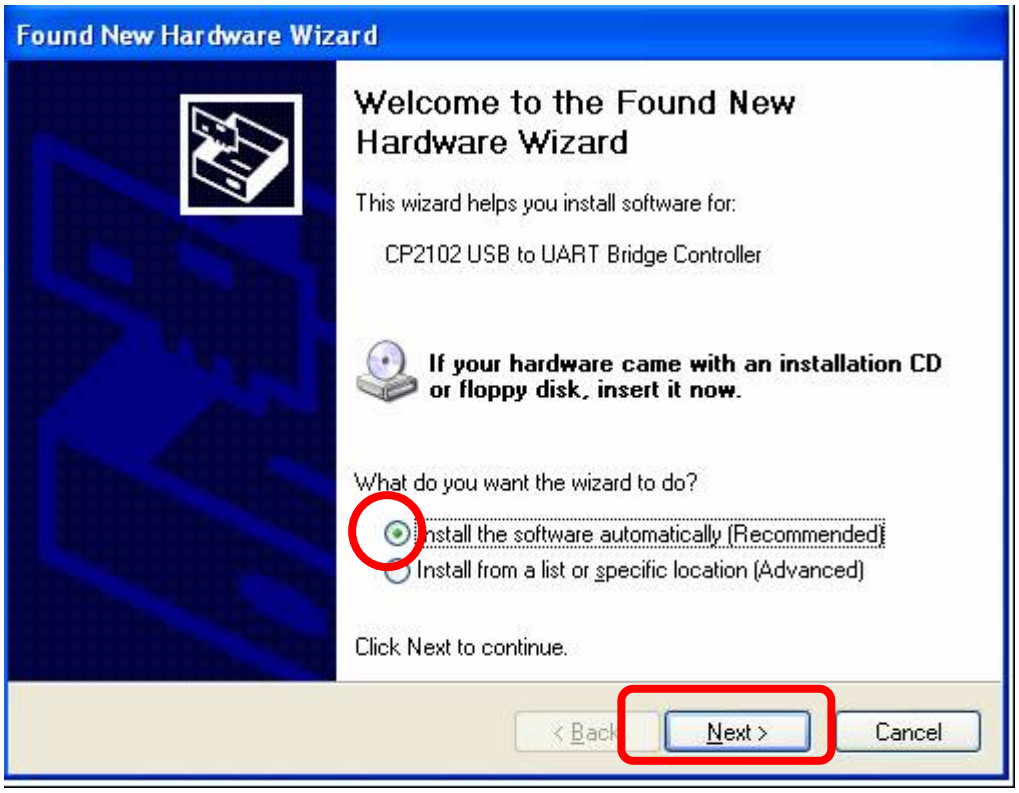
9 - 2. Communication unit settings: Installation of serial port driver

1. When "Finish" has been clicked in the previous window, the following window is displayed.

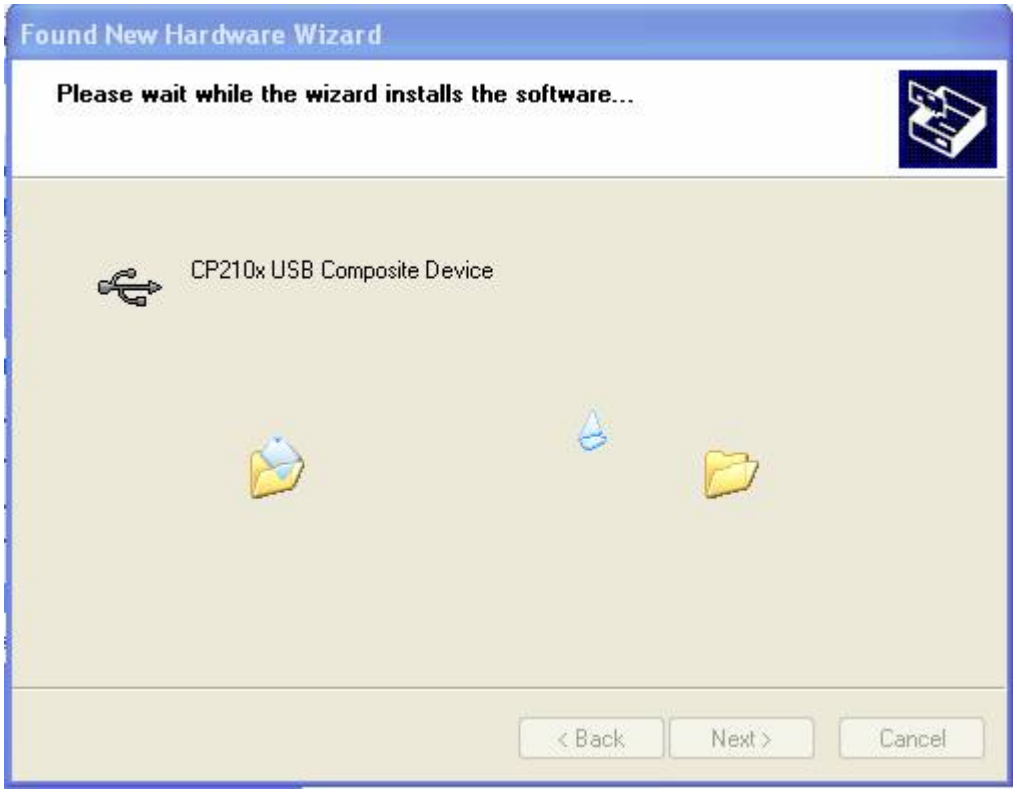
The communication unit can be set up by performing the operations for Preparation 1 again; ensure these operations are carried out.Select "No, not this time" and click "Next".

Hardware Update Wizard
Welcome to the Hardware Update Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

2. Check that "Install the software automatically (Recommended)" is selected and click "Next".


Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
CP2102 USB to UART Bridge Controller
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

3. The following window is displayed. Wait until installation is complete.



4. The following window is displayed. Click on "Continue Anyway".

Hardware Installation
The software you are installing for this hardware:
CP210x USB Composite Device
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

5. The following window is displayed. Wait until installation is complete.

6. The following window is displayed. Click on "Finish".

Communication unit settings - installation of serial port driver is complete.

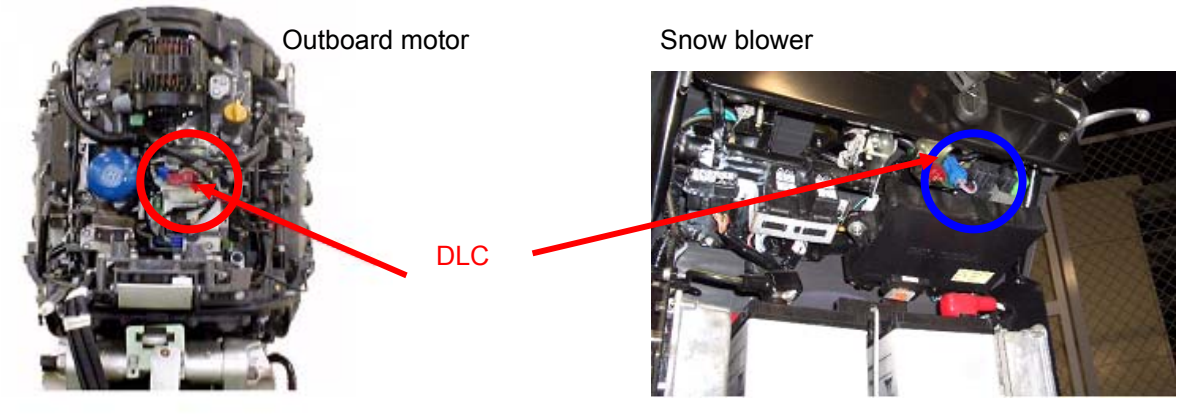
Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
CP210x USB Composite Device
Click Finish to close the wizard.
< Back
Finish
Cancel

- ☑ Confirming PC
- ☑ Stopping screensaver
- ☑ System standby, hibernate
- ☑ Installing base software/installing USB drive
- ☑ Installing model software
- ☑ Communications unit

Dr. H start up can be prepared in this way.

10. Connecting to products

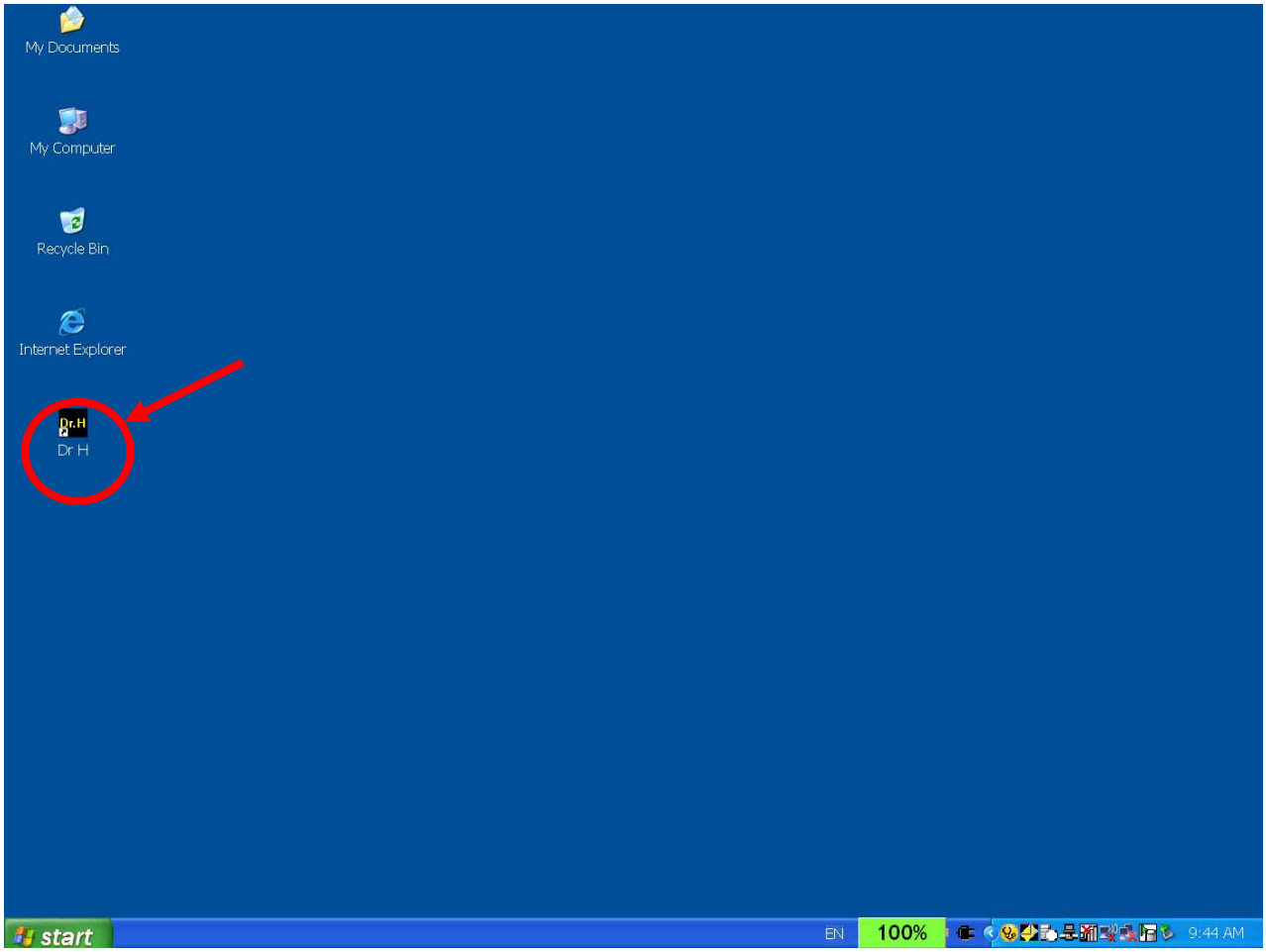
1. Connect the communication unit DLC cable to the product's DLC.



The outboard motor DLC has a red connector.DLCs other than for outboard motors have a blue connector.

2. Turn on the ignition switch on the products.

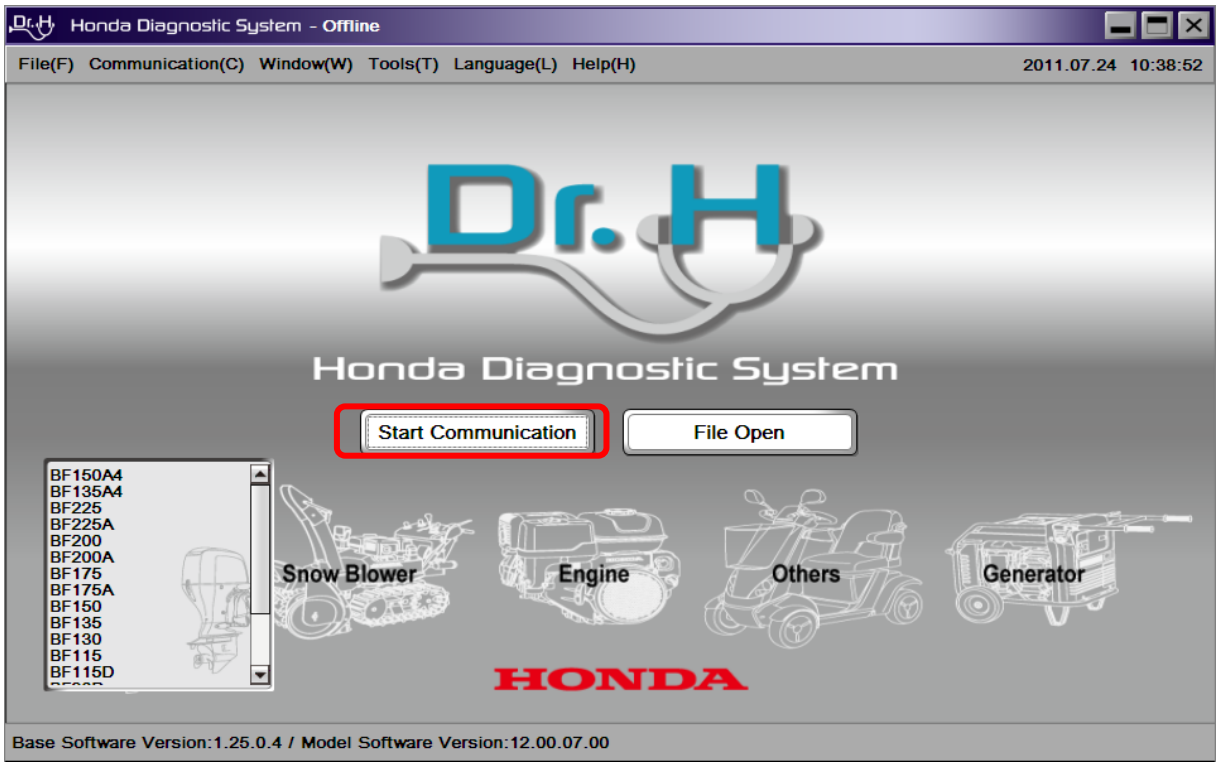
3. Double-click the Dr. H icon on the desktop and start up Dr. H.



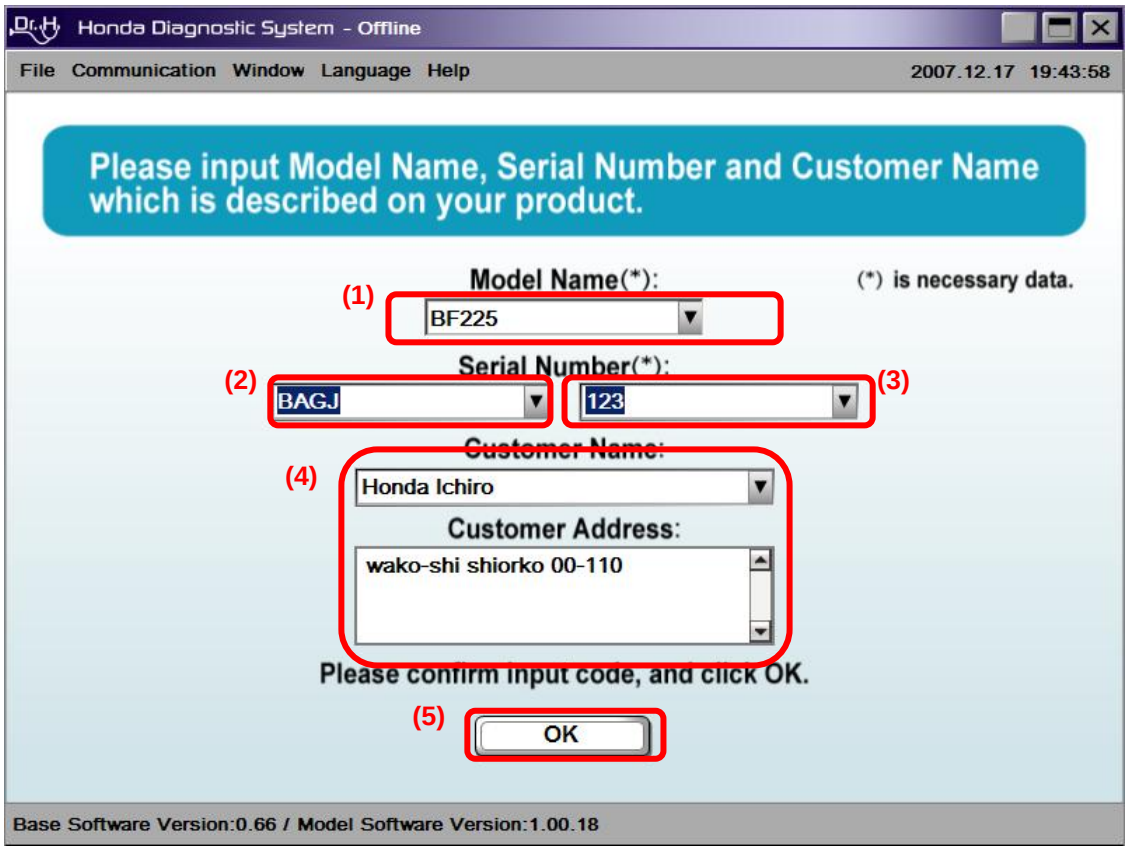
4. The Dr. H window opens up.

When the cursor is placed over the picture of the model it is possible to see which models have the Dr. H model software installed.

5. Click "Start Communication".



6. Enter the necessary items in the following windows.



(1) Enter name of model.

(2) Enter type.

(3) Enter serial number.(Frame number or engine number).

(4) Enter name and address of client.

(5) Click "OK".

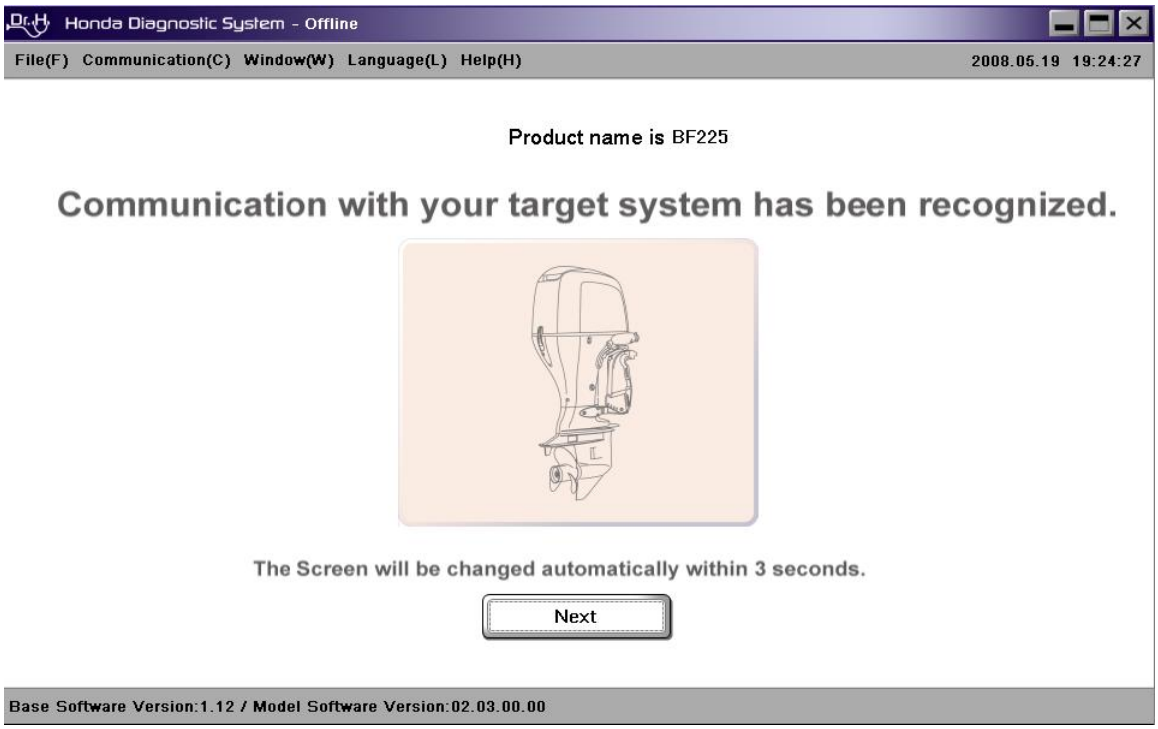
＊ This information is saved in a file and is used in printouts.

(*) indicates an obligatory item.

7. Check that there are no problems with the confirm items window that follows, and click "OK".

Honda Diagnostic System - Offline
File Communication Window Language Help
2007.12.17 19:44:44
1.Please check if your product connects with interface unit.
2.Please turn on power of the system.
3.Please setup Comm.Port if you are trying to communicate for the time.
Com Port Setting
COM4
If it is connected, please click OK.
Return
OK
Base Software Version:0.66 / Model Software Version:1.00.18

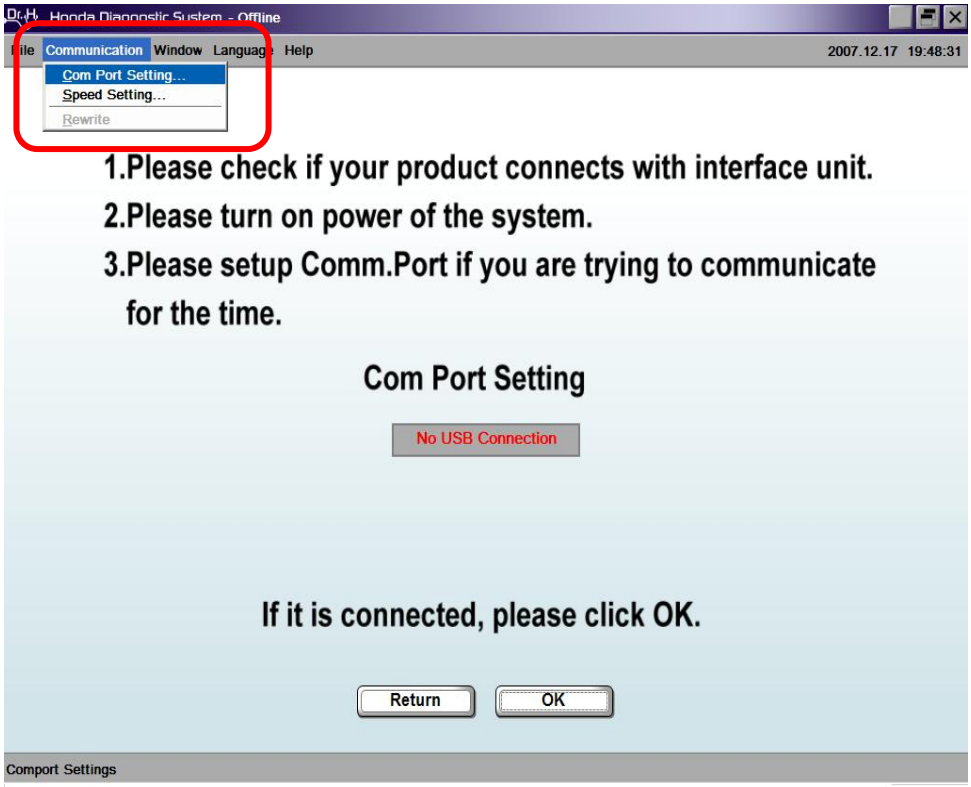
8. When the communication is successful, an image of the product appears.


Honda Diagnostic System - Offline
File(F) Communication(C) Window(W) Language(L) Help(H)
2008.05.19 19:24:27
Product name is BF225
Communication with your target system has been recognized.
The Screen will be changed automatically within 3 seconds.
Next
Base Software Version:1.12 / Model Software Version:02.03.00.00

9. If the USB communication fails, the following window is displayed. The communication port setting shows "No USB Connection".

Honda Diagnostic System - Offline
File Communication Window Language Help
2007.12.17 19:46:49
1.Please check if your product connects with interface unit.
2.Please turn on power of the system.
3.Please setup Comm.Port if you are trying to communicate for the time.
Com Port Setting
No USB Connection
If it is connected, please click OK.
Return
OK
Base Software Version:0.66 / Model Software Version:1.00.18

10. Check the communication port by following these steps. Select communication setting and click "Com port setting".

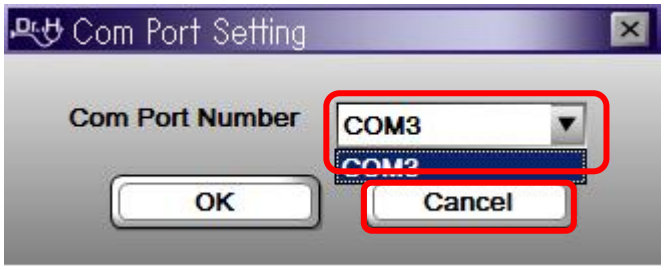


11. Click on the Communication port setting. The following message appears.

Check the COM Number on the pull down menu.

In the example, the COM number is only COM3 so it has not increased.

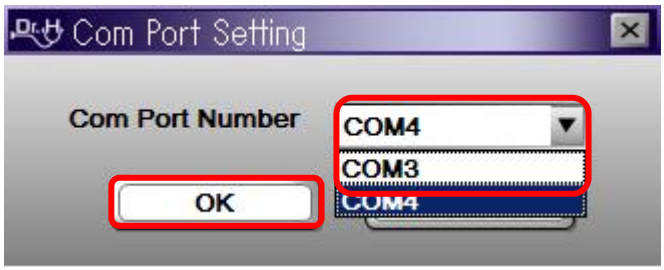
Click "Cancel".



12. After canceling, check the COM number with the **USB cable inserted into the PC**

In the example, it has increased to COM4.

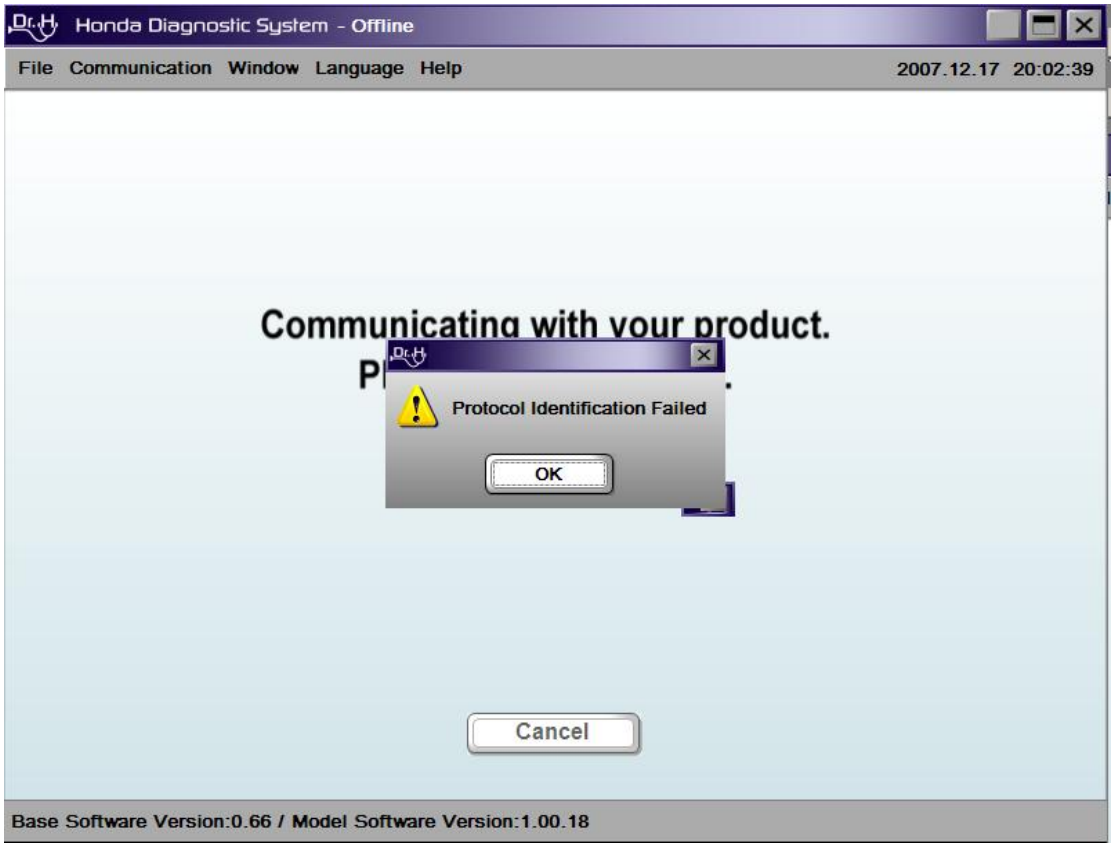
Click "OK".



13. In the next window, check that the COM number has increased.

Honda Diagnostic System - Offline
File Communication Window Language Help
2007.12.17 19:52:30
1.Please check if your product connects with interface unit.
2.Please turn on power of the system.
3.Please setup Comm.Port if you are trying to communicate for the time.
Com Port Setting
COM4
If it is connected, please click OK.
Return
OK
Base Software Version:0.66 / Model Software Version:1.00.18

14. When the product is not turned on, the red LED light on the communication unit flashes and the following message is displayed.Click "OK".



The following window appears. The ⚠ mark flashes.

Honda Diagnostic System - Offline
File Communication Window Language Help
2007.12.17 20:04:36
Communication with your product has been failed.
1.Check it power is ON on your product.
2.Check Communication Port (com port.)
Com Port Setting
COM4
Select Next after Checking all items.
Return
Next
Base Software Version:0.66 / Model Software Version:1.00.18

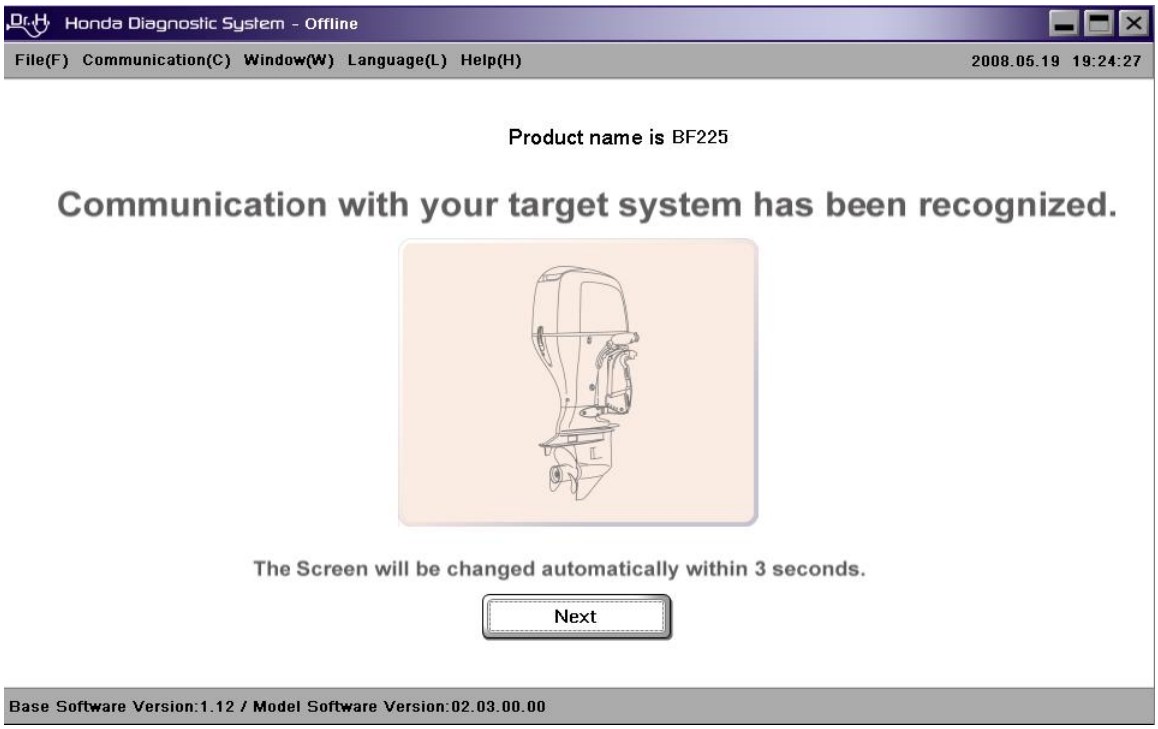
Check if the ignition switch on the product is on.

Check that the communication unit is properly connected.

Make sure that the cable connection has not come out and that the connector is fully attached.

15. When the Communication is successful, the red LED light on the communication unit goes off and the green LED light comes on.

When a picture of the products is shown, click "Next".

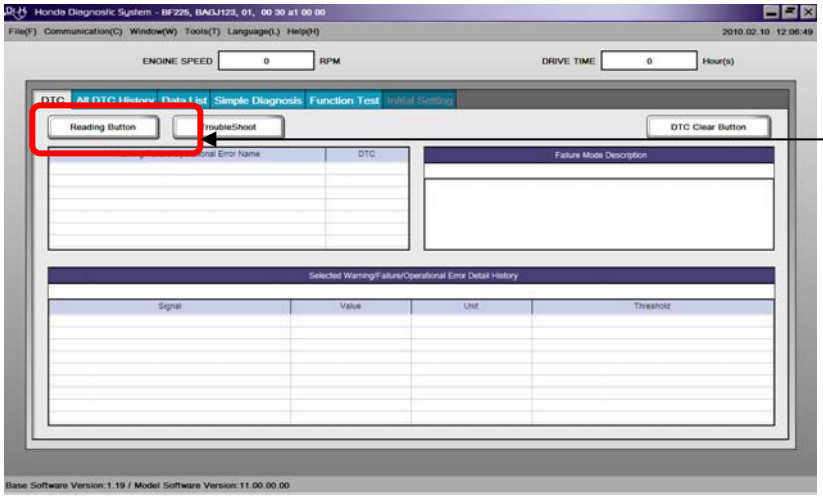

Honda Diagnostic System - Offline
File(F) Communication(C) Window(W) Language(L) Help(H)
2008.05.19 19:24:27
Product name is BF225
Communication with your target system has been recognized.
The Screen will be changed automatically within 3 seconds.
Next
Base Software Version:1.12 / Model Software Version:02.03.00.00

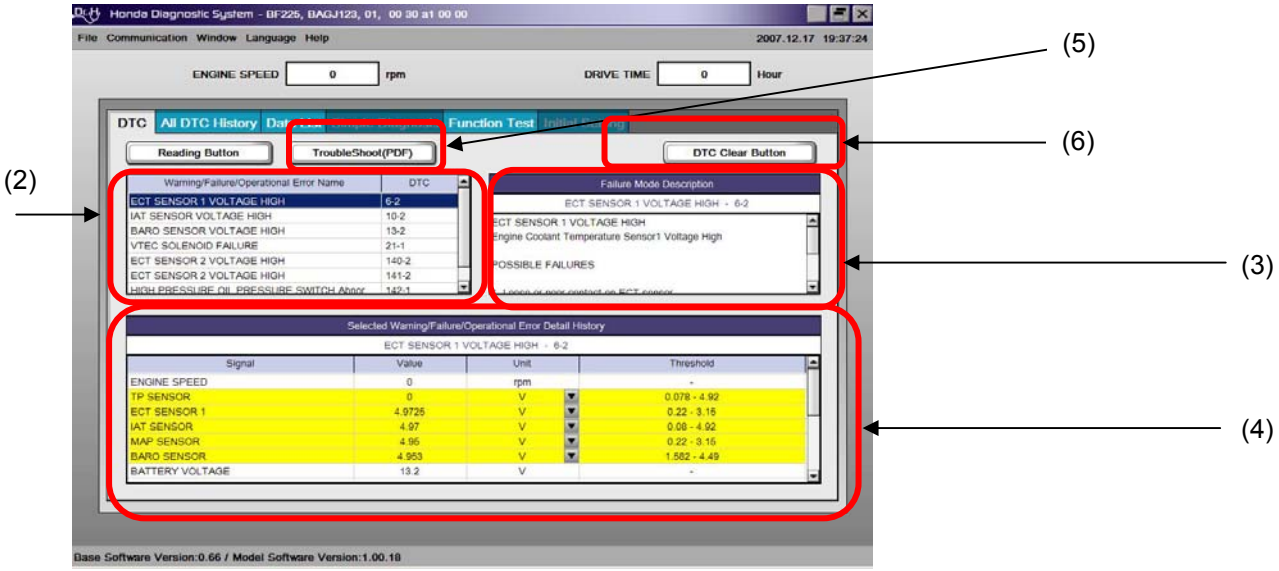
11. Failure diagnosis

11 - 1. DTC

The DTC generated in response to irregularities in the system after an inspection is carried out for system irregularities is saved in the ECU.The DTC tool is used to display DTC information saved in the ECU.

Click "Reading Button" to start diagnosis.





Explanation of buttons:

(1) Reading button: Displays and renews DTC from ECU inspection.

(2) DTC window: Displays DTC from ECU inspection.

(3) Information window: Displays the presumed cause of failure in the DTC selected in the DTC window.

(4) DTC details window: Displays detailed information for DTC selected in DTC window.
Irregular signals are highlighted in yellow.(Sometimes there is no detailed information depending on the DTC).

(5) This is a link for troubleshooting.Refer to troubleshooting in the service manual.

(6) DTC Clear Button: Clears DTC from ECU inspection. *Only BF series corresponds.

11 - 2. All history

Displays DTC history saved in the ECU.

It is possible to display up to five histories — except for the outboard motor ECU.

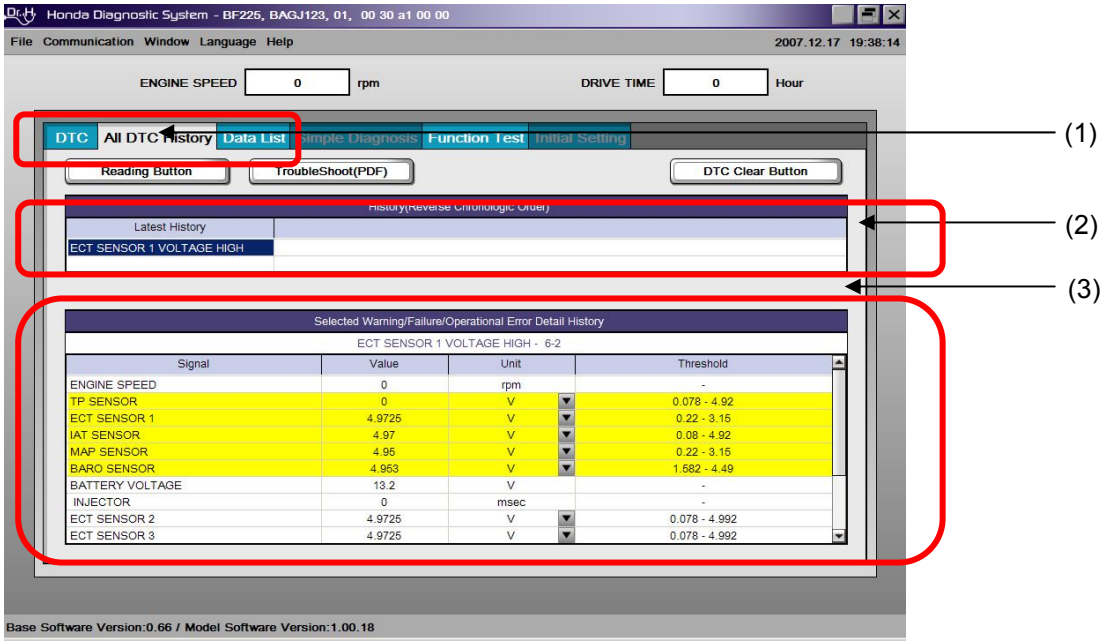
Displays most recent history from the left.

(1) Reading button: Displays and renews entire DTC histories saved in the ECU.

(2) DTC history window: Displays DTC history starting with the most recent.
Highlights selected DTC histories.

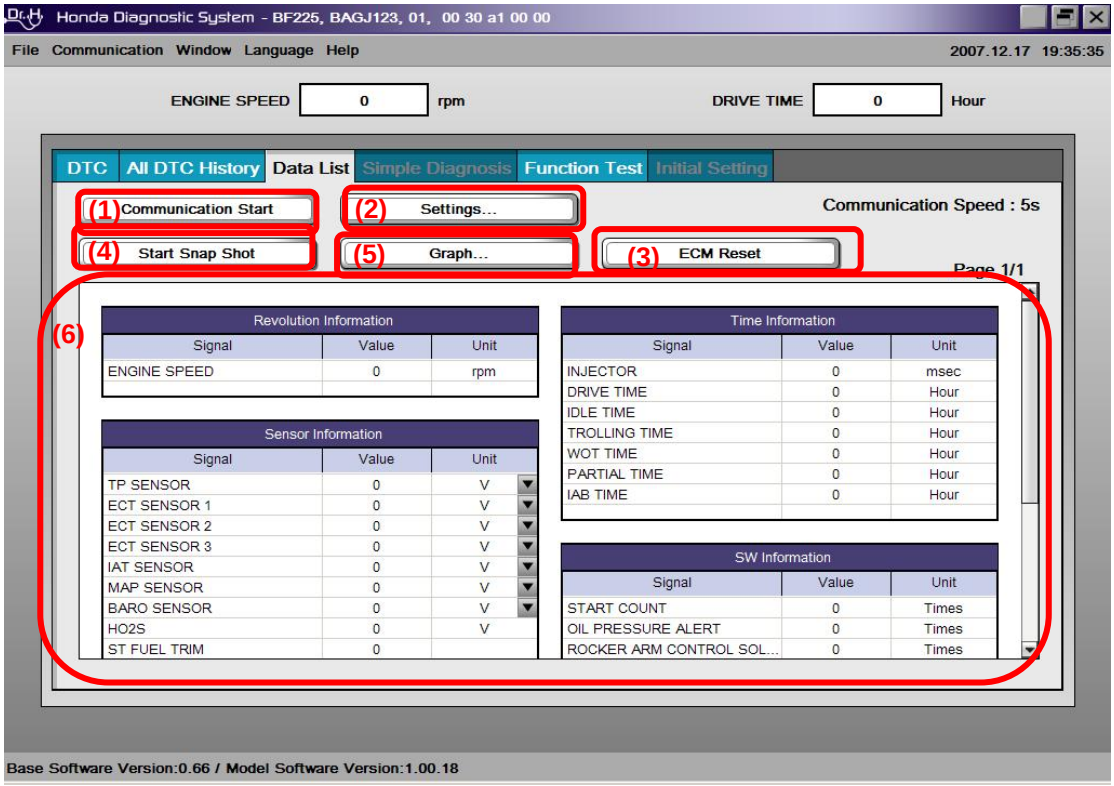
(3) DTC details window: Displays detailed information for the DTC selected in the DTC window.

Irregular signals are highlighted in yellow.


Honda Diagnostic System - BF225, BAGJ123, 01, 00 30 a1 00 00
File Communication Window Language Help
2007.12.17 19:38:14
ENGINE SPEED 0 rpm
DRIVE TIME 0 Hour
DTC All DTC History Data List Simple Diagnosis Function Test Initial Setting
Reading Button
TroubleShoot(PDF)
DTC Clear Button
Latest History
ECT SENSOR 1 VOLTAGE HIGH
Selected Warning/Failure/Operational Error Detail History
ECT SENSOR 1 VOLTAGE HIGH - 6-2
Signal Value Unit Threshold
ENGINE SPEED 0 rpm -
TP SENSOR 0 V 0.078 - 4.92
ECT SENSOR 1 4.9725 V 0.22 - 3.15
IAT SENSOR 4.97 V 0.08 - 4.92
MAP SENSOR 4.95 V 0.22 - 3.15
BARO SENSOR 4.953 V 1.582 - 4.49
BATTERY VOLTAGE 13.2 V -
INJECTOR 0 msec -
ECT SENSOR 2 4.9725 V 0.078 - 4.992
ECT SENSOR 3 4.9725 V 0.078 - 4.992
Base Software Version:0.66 / Model Software Version:1.00.18
(1)
(2)
(3)

11 - 3. Data list

Displays real-time information for each device regarding the sensors, switches etc. inspected by the ECU. Can be displayed in a graph. Also has a snapshot function.



(1) Start Communication: Start Communication, display data.

(2) Settings: Set up snapshot, graph display.

(3) ECM reset: Delete ECU's ECM value and DTC.

(4) Start snapshot: Record and save data list's Communication data.

(5) Graph: Display Communication data graph.

(6) Parameter window: Display signal information for sensors, switches etc.

Data list Procedures

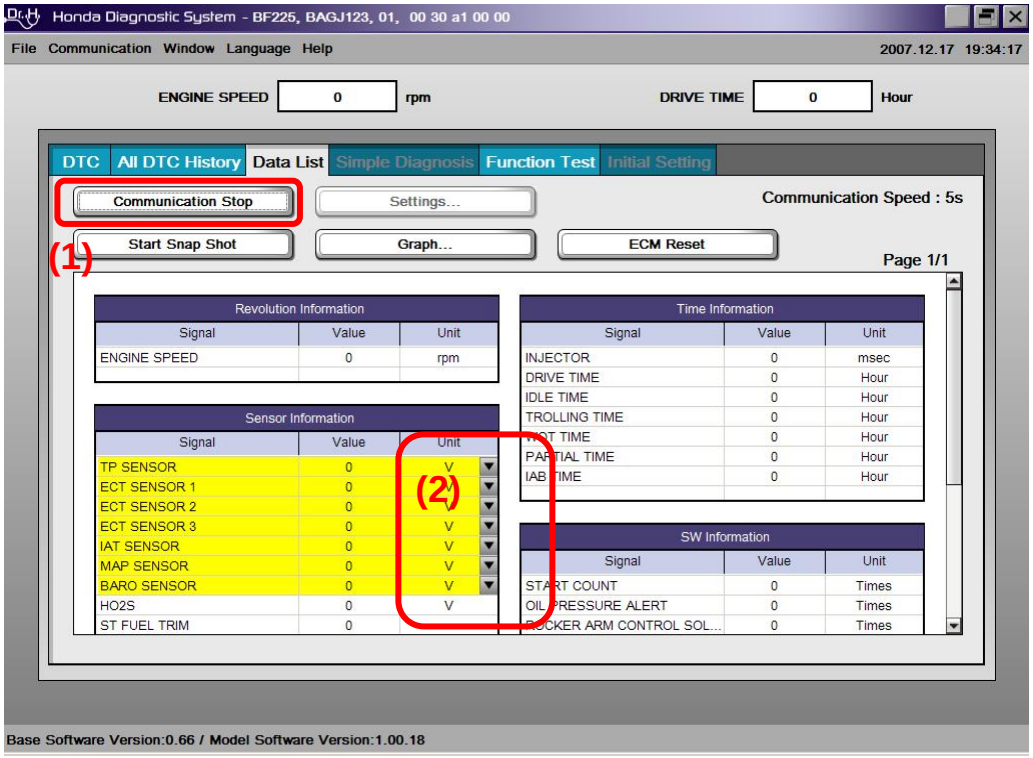
(1) Click "Start Communication".

*When the Communication starts, the "Start Communication" button switches to "Stop Communication". Click the button again to stop the Communication.

The parameter window shows separate signals for sensors, switches, time information etc.

Irregular signals are highlighted in yellow.

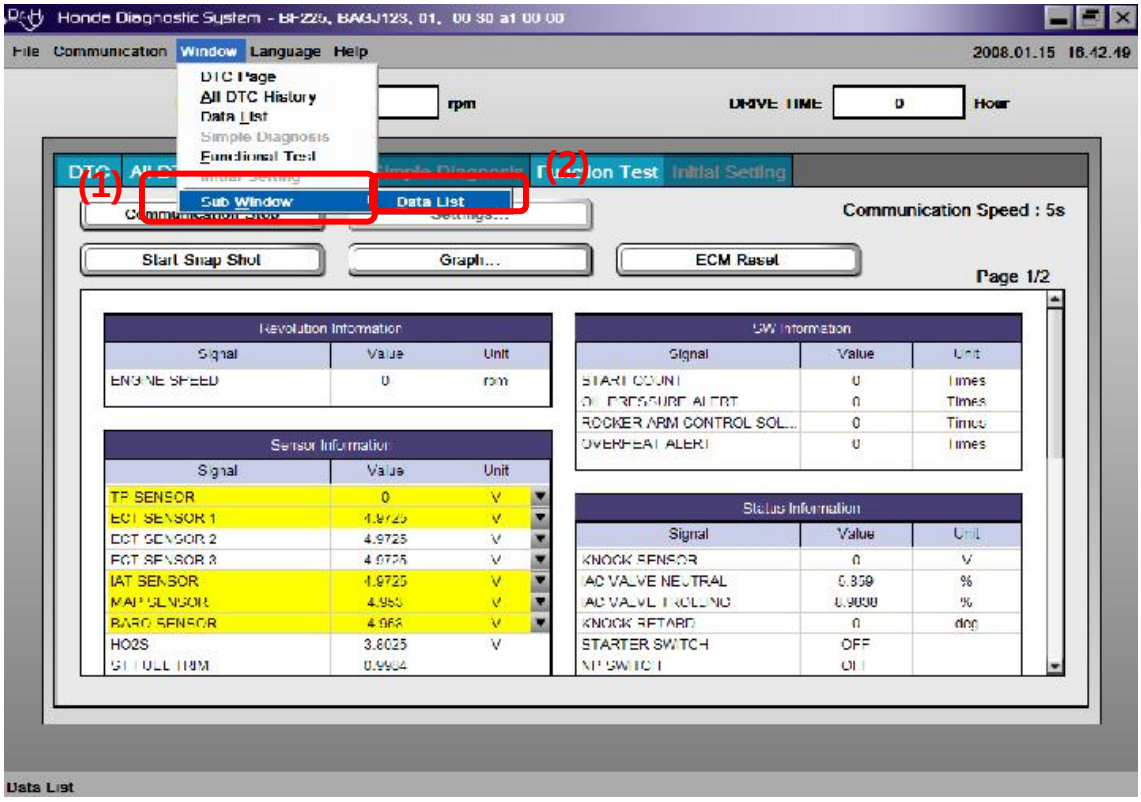
(2) The units for the signals can be changed using the signal dropdown box.



Data list Sub-windows function

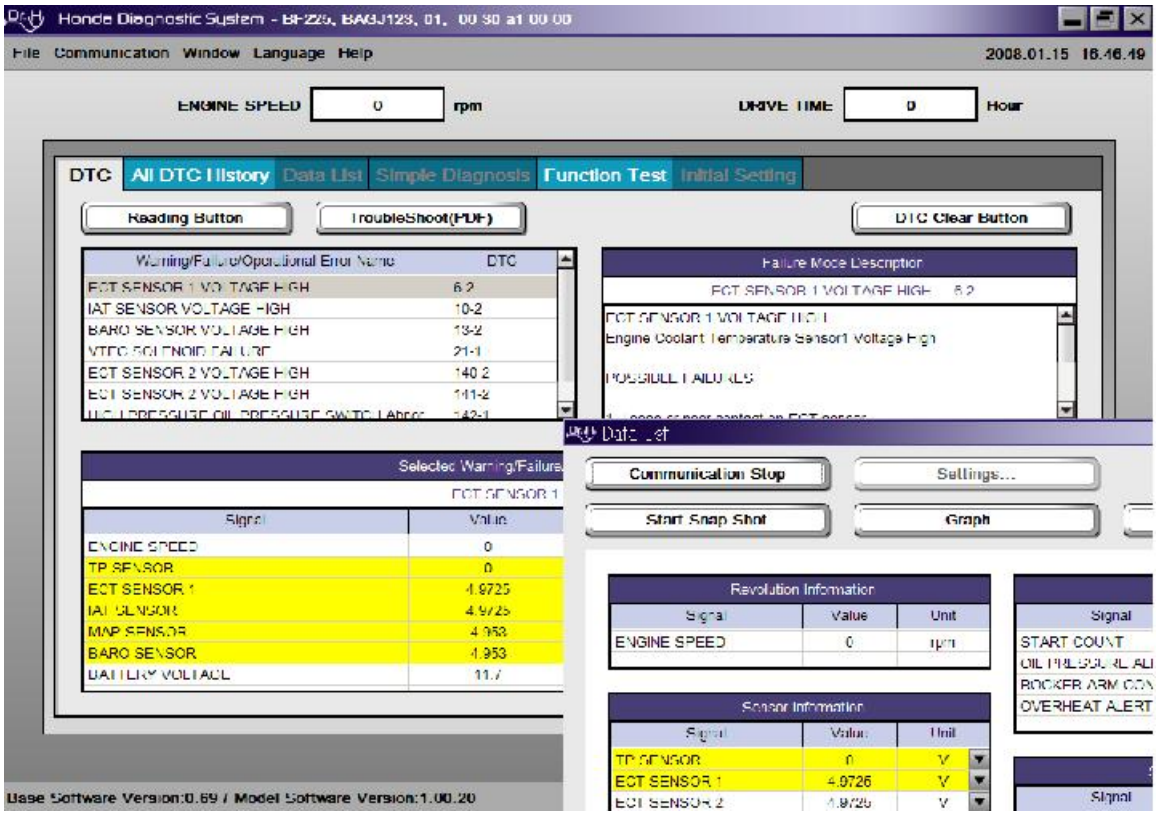
This function makes it possible to see the data list simultaneously in a separate window.

From the window menu, select (1) "sub-window" and then (2) "data list".



In Example, the data list and DTC are displayed in two windows.

In this example, it is possible to check for irregular data by checking the data list as the DTC appear.

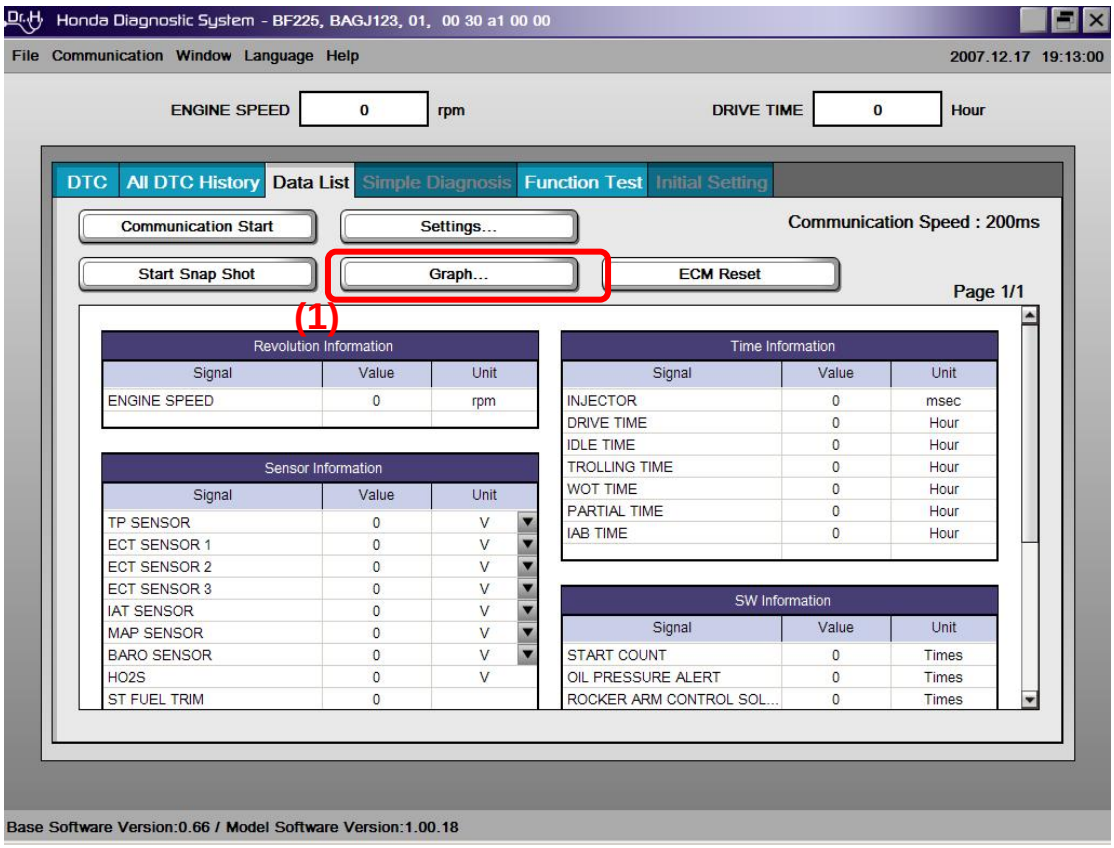


Graph display function

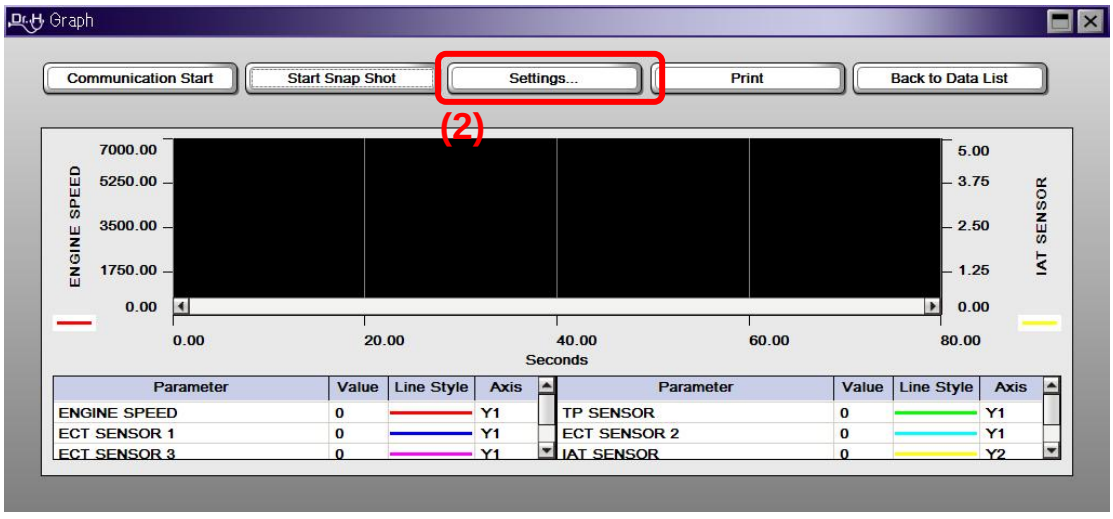
Note : You must stop Communication before making changes to the Graph settings then click “Communication Start” button again.

Using this function, time can be seen in conjunction with the changing value of variable data.

(1) Click on "Graph".

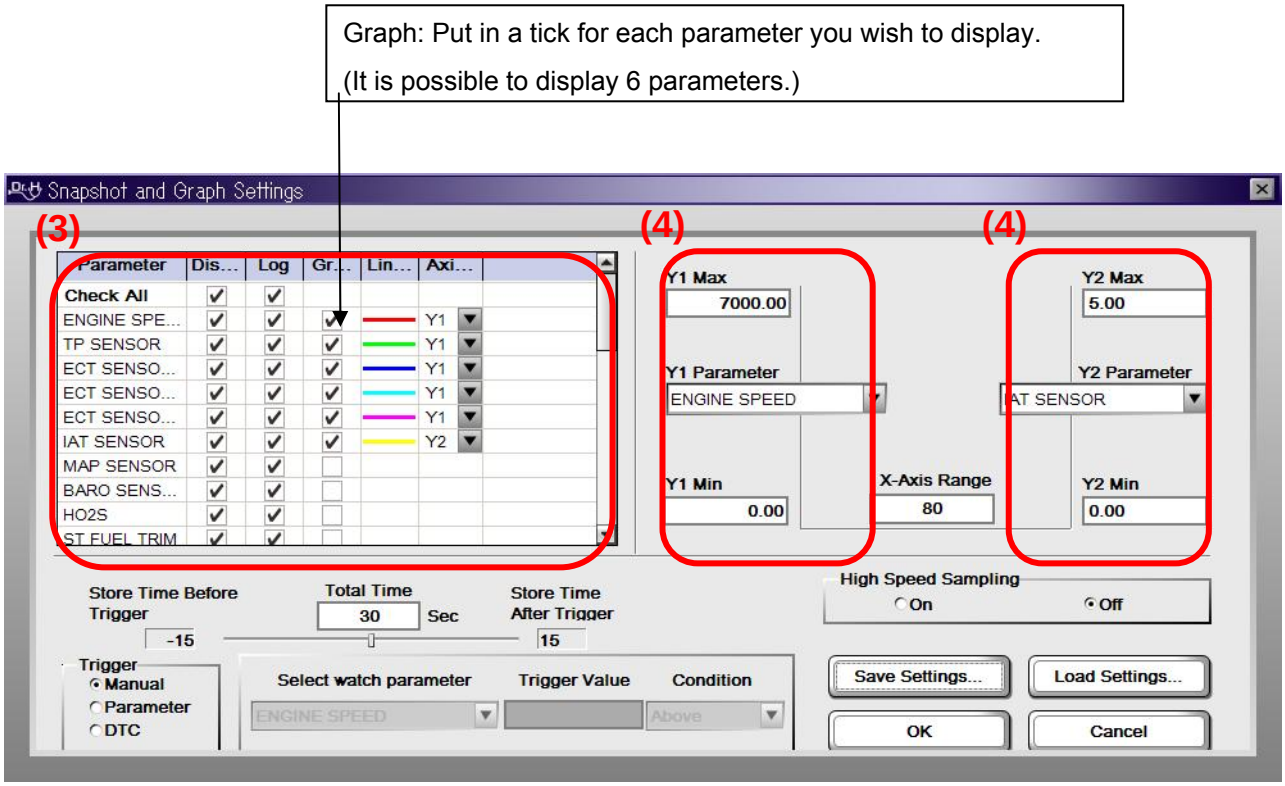


(2) The graph window is displayed. Click on "Settings".



(3) The following settings window is displayed.

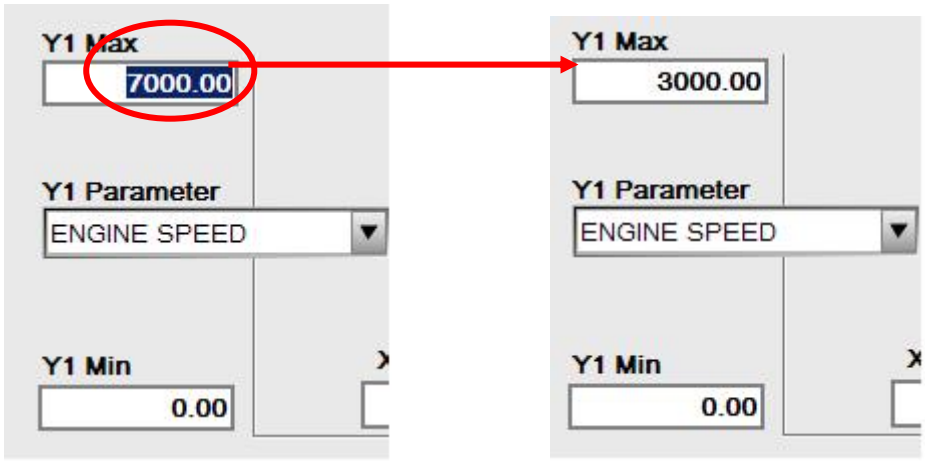
Set the selected signals, maximum value, minimum value, color, weight etc. that you want for the graph.



(4) You can change the scale of the graph.

You can change the maximum value and minimum value.Click on the variable box to highlight it.

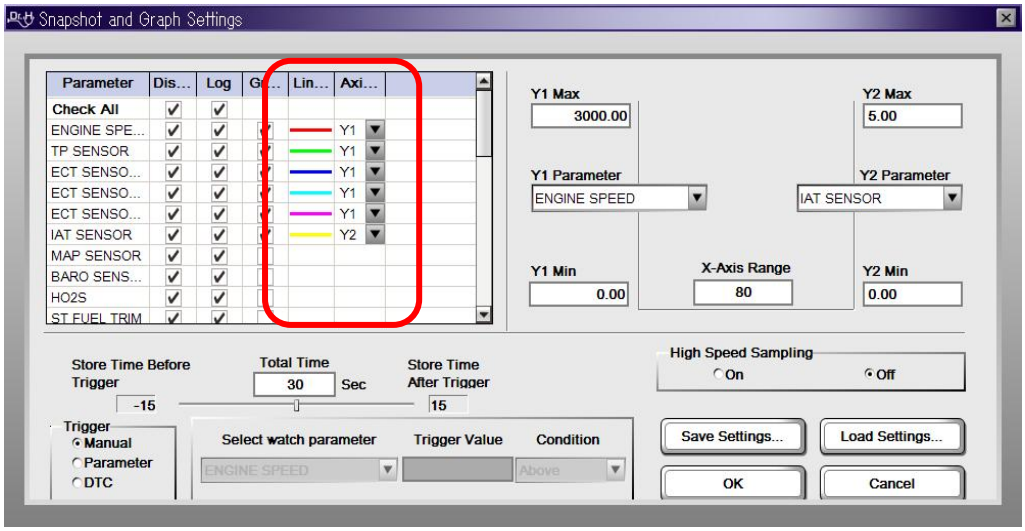
Enter the value you wish to set.

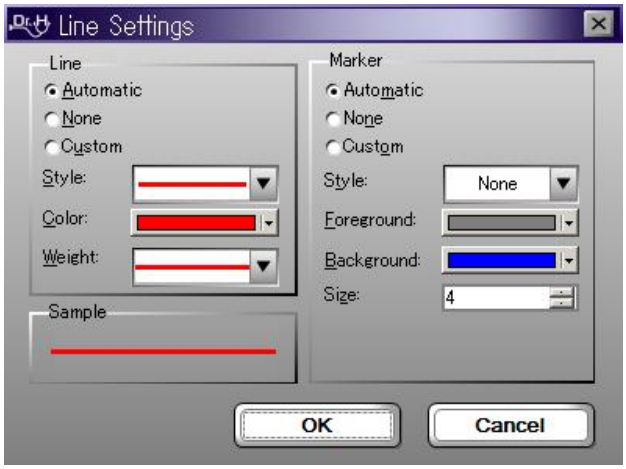


Changing graph type

It is possible to change the graph color, style and width, and place a marker in the graph.

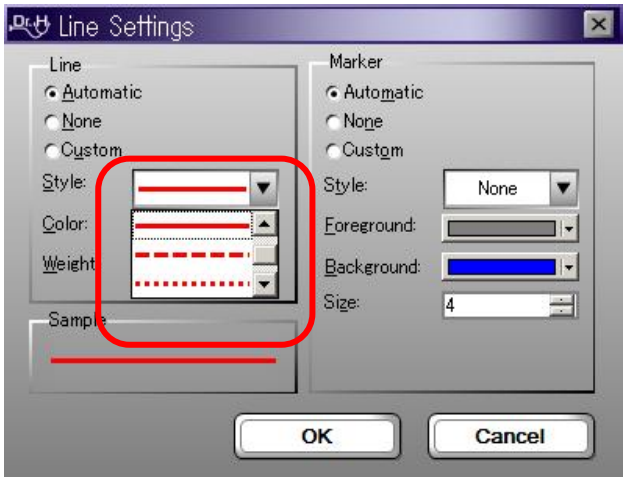
When you click on the line, the window for choosing line types is displayed.





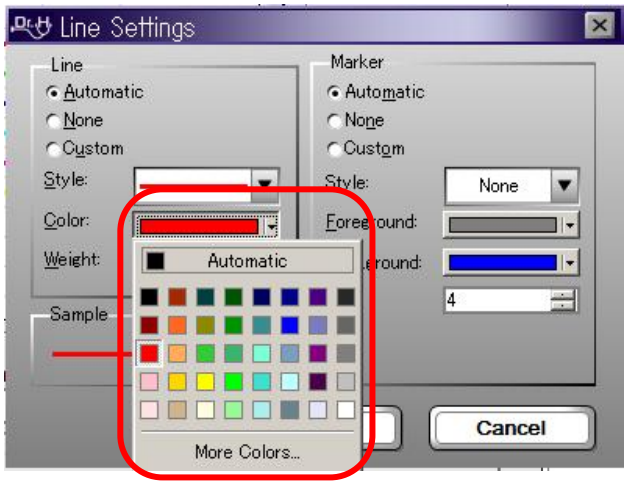
Line types window_Changing style

Select the line style from the dropdown menu.



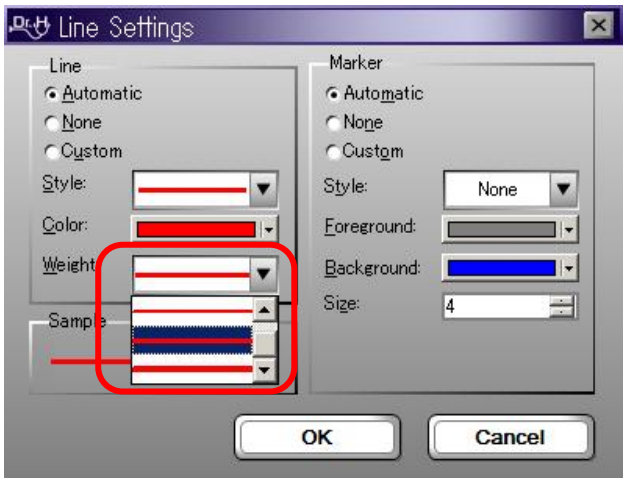
Line types window_Changing color

Select the line color from the checkbox.



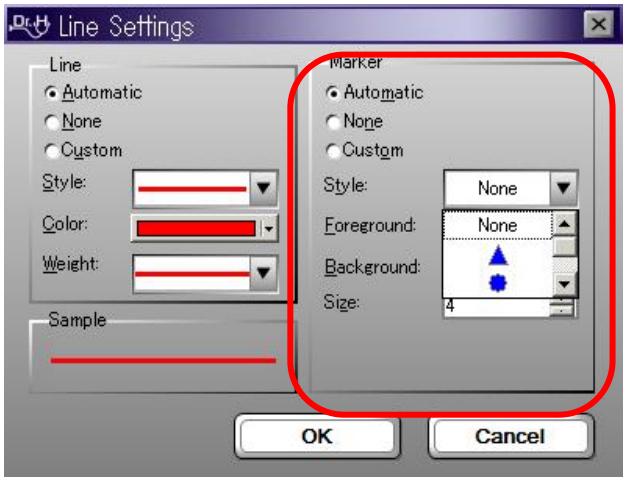
Line types window_Changing weight

Select the line weight from the dropdown menu.



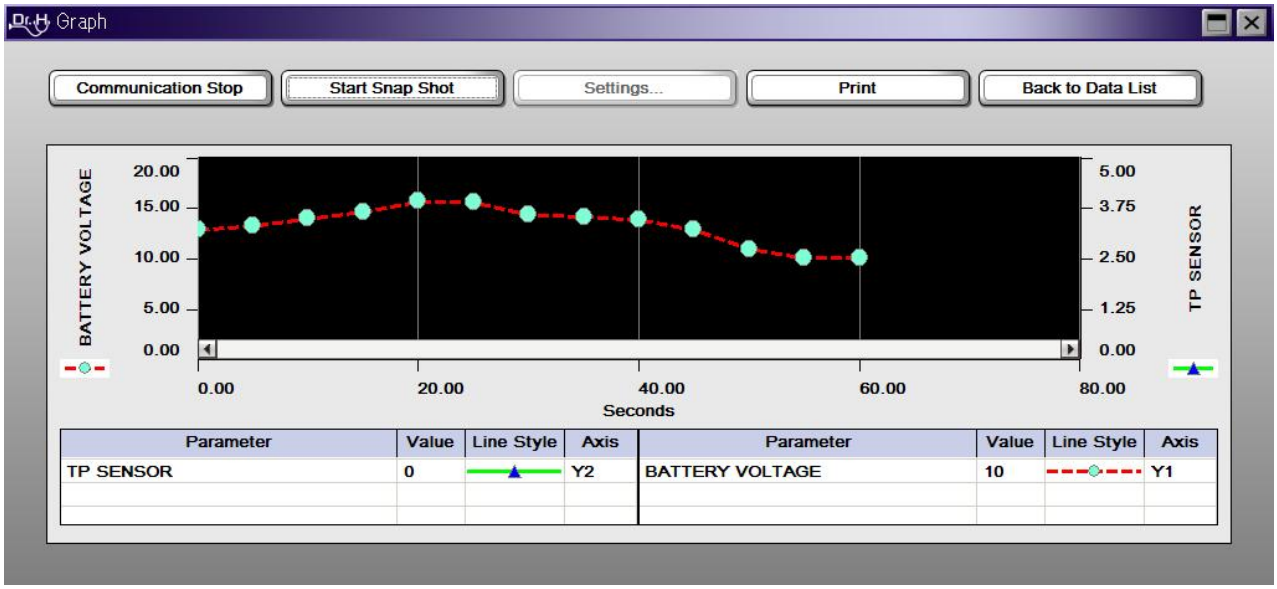
Line types window_Setting marker

It is possible to choose whether to have markers or not, and to set the style.



Example:

The set parameters are in the lower section of the window. It is possible to confirm the line type and marker settings in the graph legend.



Snapshot function

The valid parameters for the diagnosis can be selected, recorded and saved.

The signal for starting the data recording is called the "trigger". It is possible to select the trigger method as manual trigger, DTC trigger or parameter trigger.

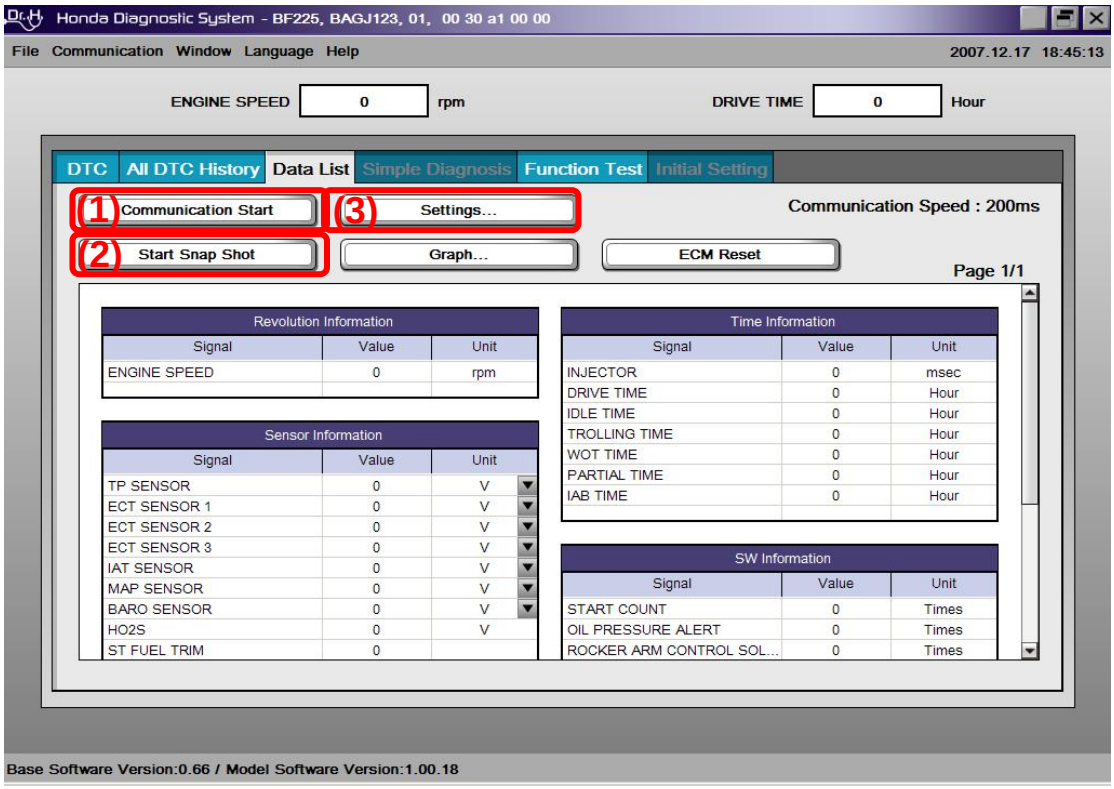
The initial setting is for a 30 second recording after the manual trigger.

(1) Click "Communication Start".

(2) Click "Start Snapshot".

*When the "Start Snapshot" button is clicked, the button's name changes to "End Snapshot".

If the button is clicked twice the snapshot will be stopped, so make sure to wait until the snapshot has ended.

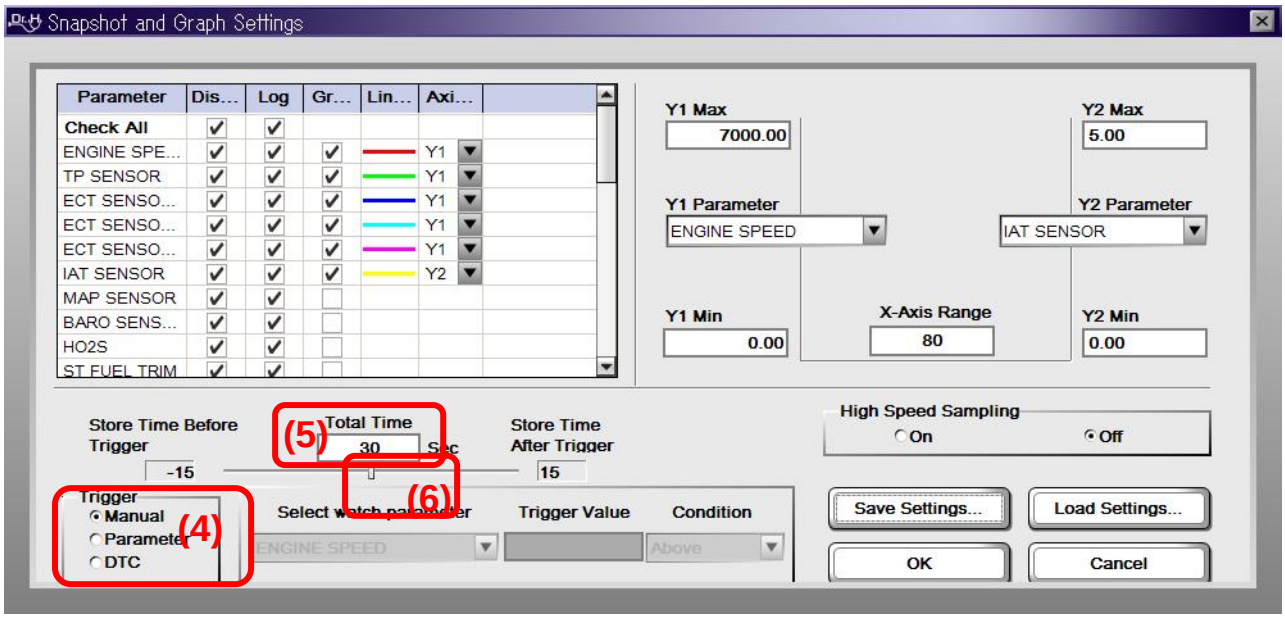

Honda Diagnostic System - BF225, BAGJ123, 01, 00 30 a1 00 00
File Communication Window Language Help
2007.12.17 18:45:13
ENGINE SPEED 0 rpm
DRIVE TIME 0 Hour
DTC All DTC History Data List Simple Diagnosis Function Test Initial Setting
1 Communication Start
3 Settings...
Communication Speed : 200ms
2 Start Snap Shot
Graph...
ECM Reset
Page 1/1
Revolution Information
Signal Value Unit
ENGINE SPEED 0 rpm
Time Information
Signal Value Unit
INJECTOR 0 msec
DRIVE TIME 0 Hour
IDLE TIME 0 Hour
TROLLING TIME 0 Hour
WOT TIME 0 Hour
PARTIAL TIME 0 Hour
IAB TIME 0 Hour
Sensor Information
Signal Value Unit
TP SENSOR 0 V
ECT SENSOR 1 0 V
ECT SENSOR 2 0 V
ECT SENSOR 3 0 V
IAT SENSOR 0 V
MAP SENSOR 0 V
BARO SENSOR 0 V
HO2S 0 V
ST FUEL TRIM 0
SW Information
Signal Value Unit
START COUNT 0 Times
OIL PRESSURE ALERT 0 Times
ROCKER ARM CONTROL SOL... 0 Times
Base Software Version:0.66 / Model Software Version:1.00.18

When the snapshot is finished, the following message appears.

Click the "OK" button to end the snapshot.

(3) Click "Settings" in the upper part of the window in order to make snapshots using settings other than the initial settings.

The following window appears.

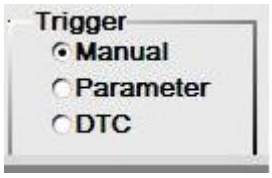


1. Trigger settings: Select trigger.

*The initial setting is for manual trigger.

Type	Explanation
Manual	When the user clicks "Start Snapshot", the recording starts.
Parameters	When the value for the parameters set for the standard trigger value are exceeded, the recording starts.
DTC	When a DTC appears, the recording starts.

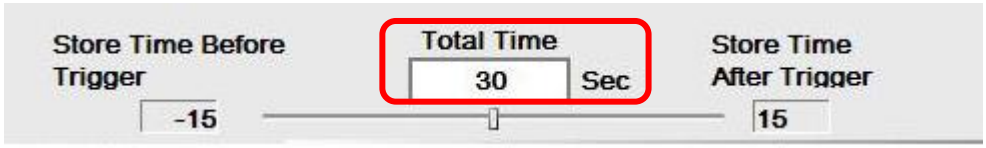
(4) Click on a trigger type box to select the trigger type.



(5) Total time: Set data recording time.Initial setting is for 30 seconds.

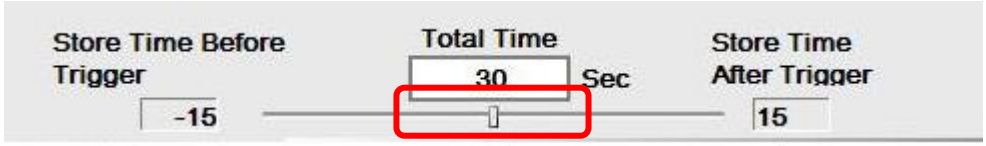
Enter desired value.Enter seconds units.

*For the BF225, when all parameters are selected and 30 seconds recorded, it amounts to around 100 Kilobytes.



(6) Settings to allocate time before and after trigger:

Using a sliding bar, the recording time can be set before and after the trigger point.

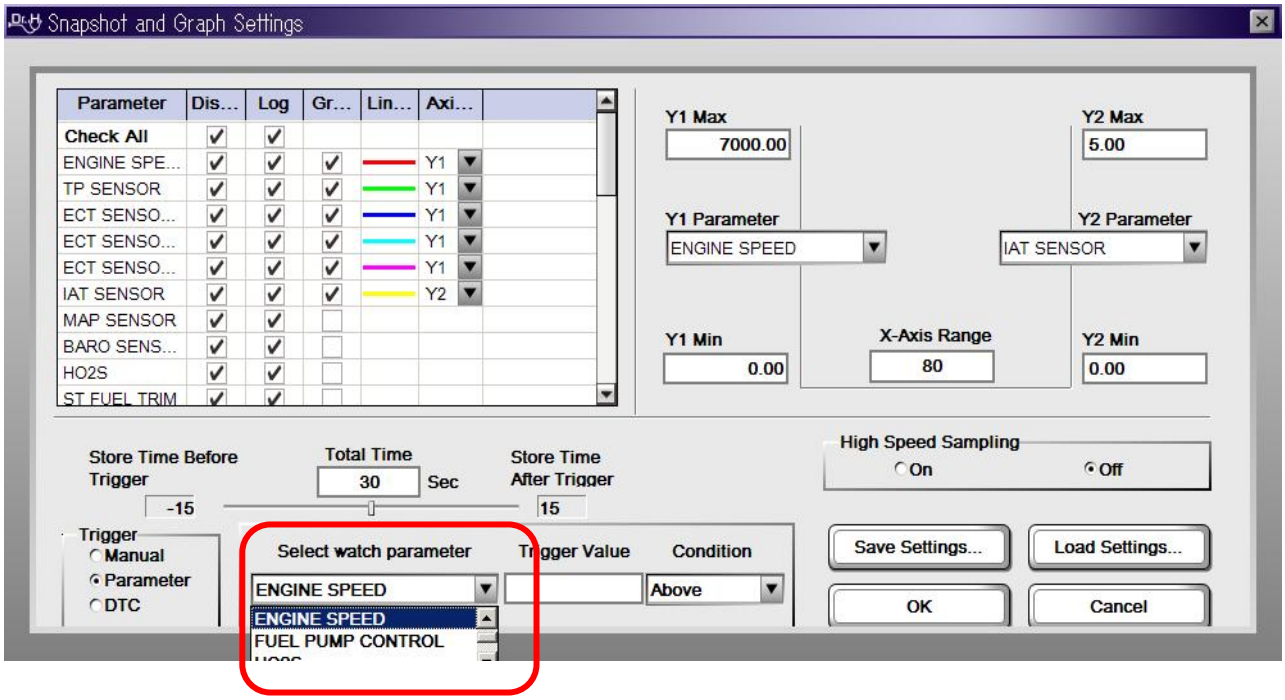


2. Parameters settings

Parameter trigger

Set the trigger type to parameter and select the watch parameter from the dropdown menu.

"Engine Speed" has been selected in this sample window.

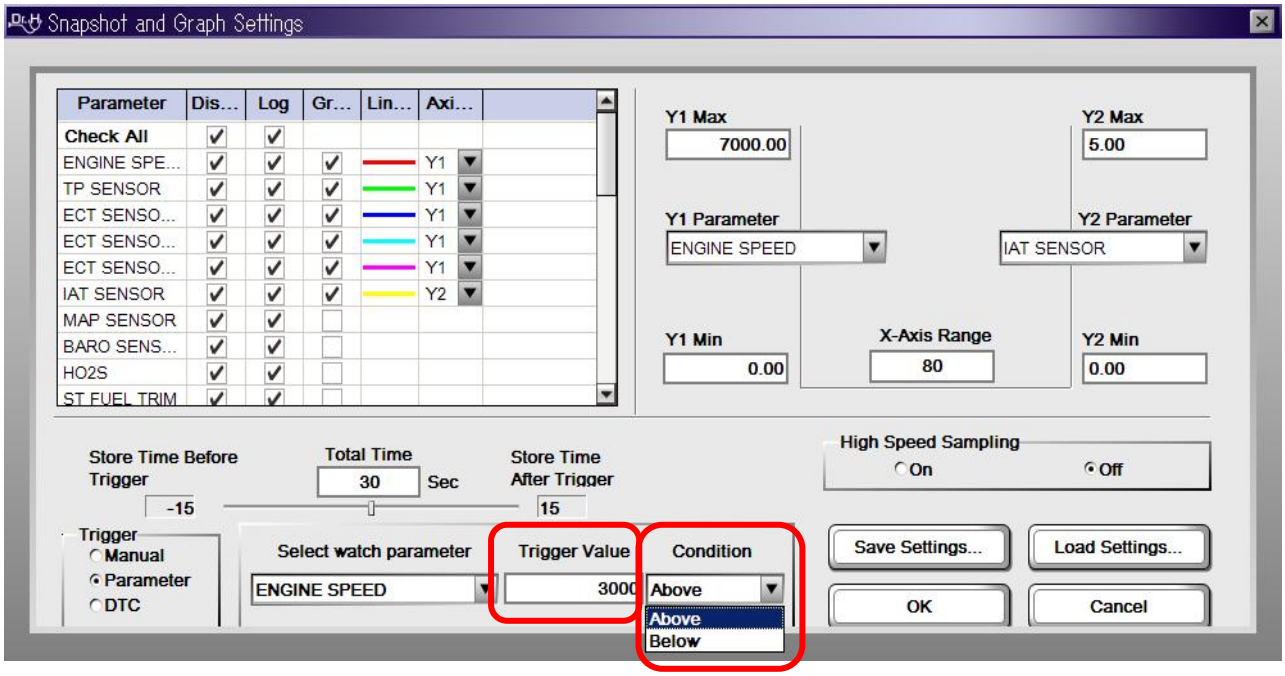


Next, decide the trigger value for the watch parameter.

Enter the desired value into the "Trigger value" box using the PC keyboard.

3000 (rpm) has been entered in the sample window.3000 (rpm) is now the standard trigger value.

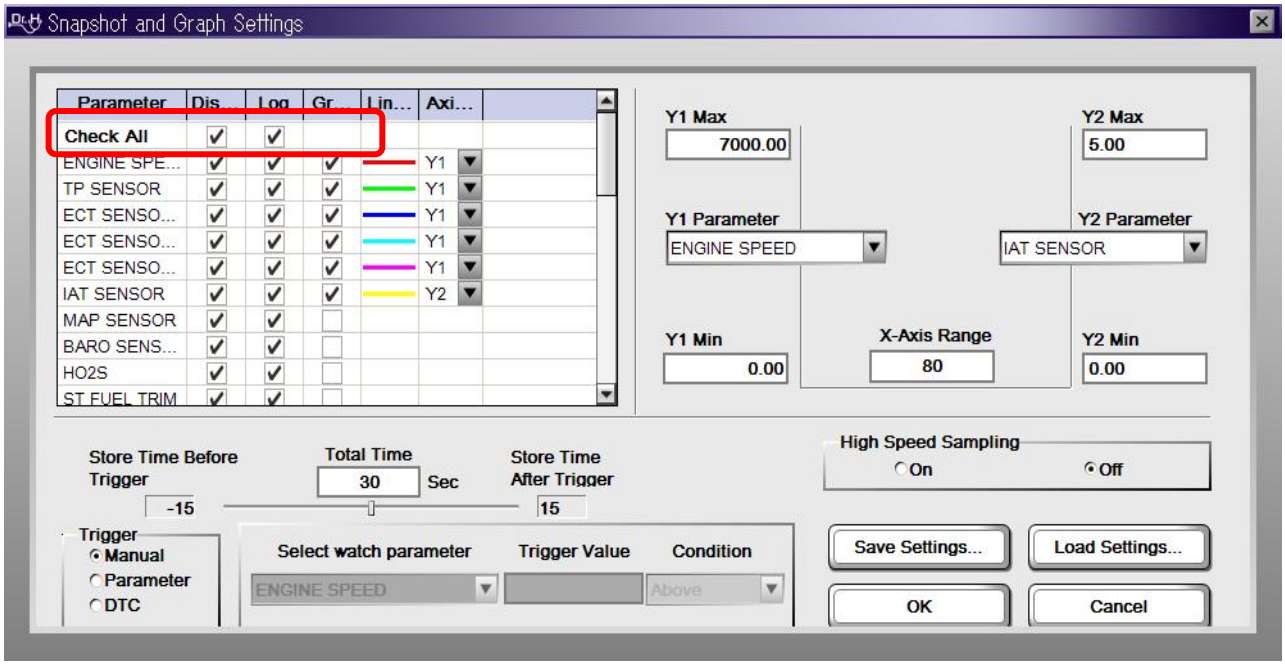
Next, set the "trigger conditions" box to a value above or below the standard value.



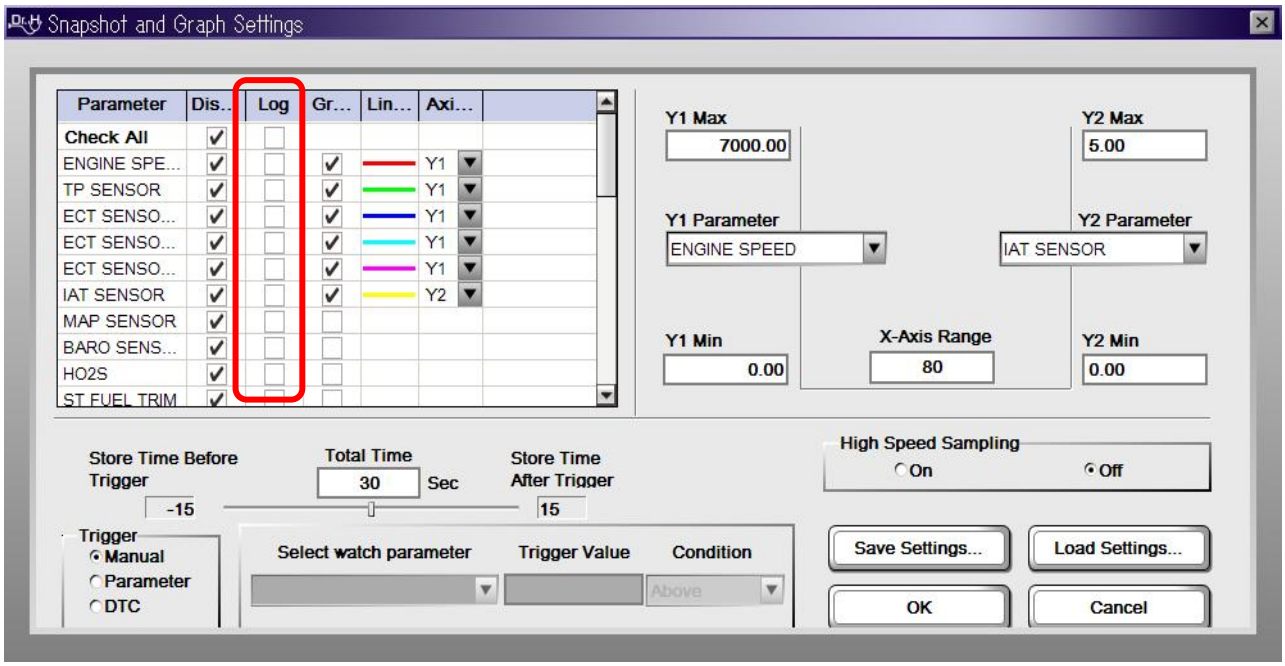
3. The snapshot offers a high-speed sampling function.

This function makes it possible to shorten the sampling time by reducing the amount of data to be read.

Click the checkbox for "**Log**" in "**Check All**" in the next screen.

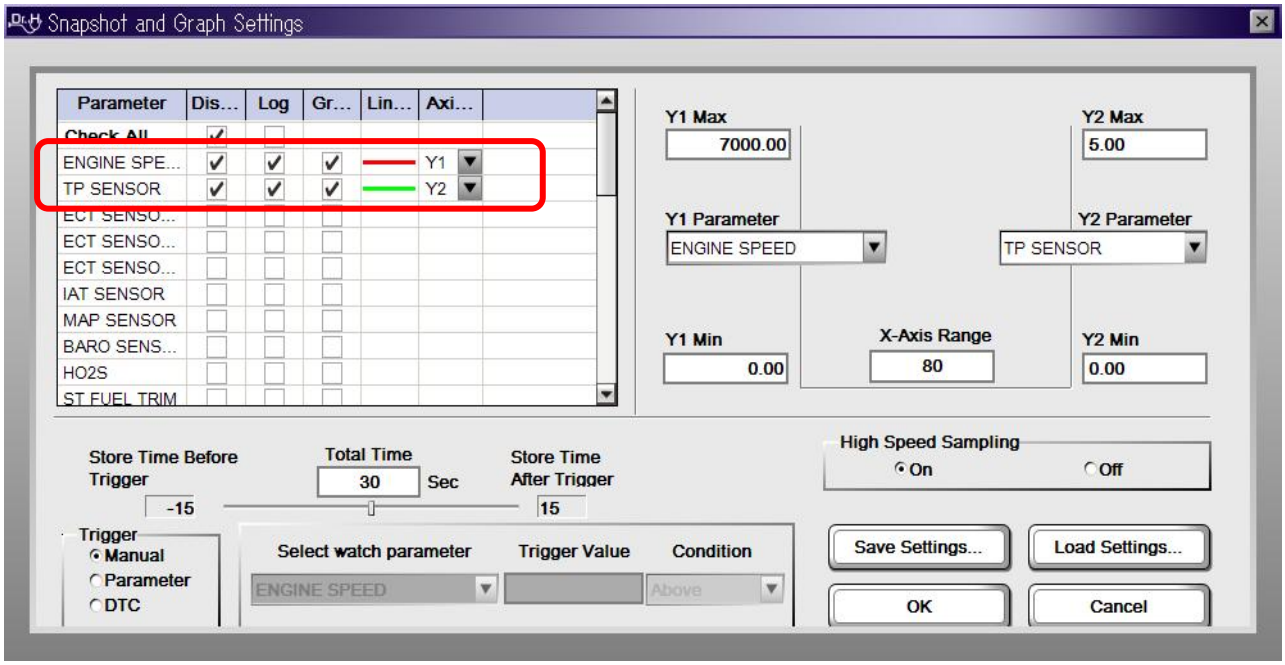


When the "Log" checkbox is clicked, the ticks disappear from the parameters.

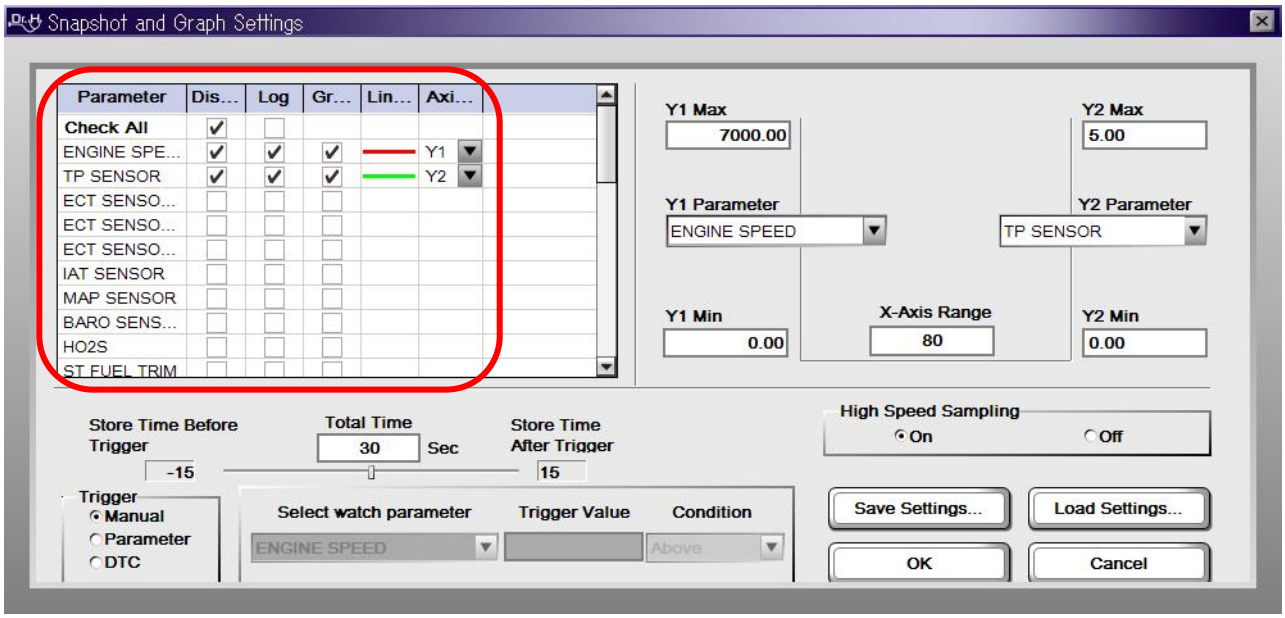


When "ON" is clicked for the high-speed sampling, the following appears.

The initial setting is for the two upper parameters.

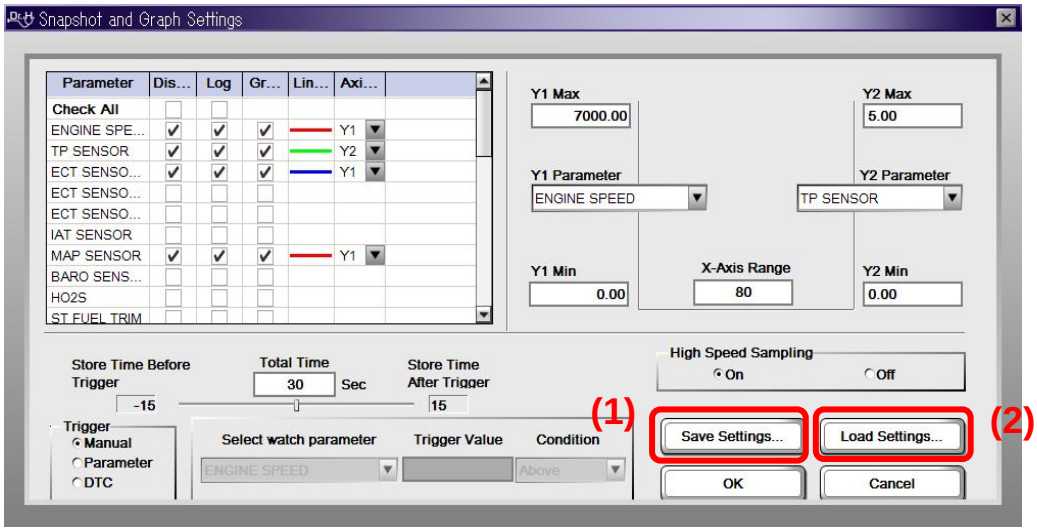


When you want to save a parameter, click on the "Log" checkbox.



5. Each item set for each type of snapshot can be saved and read.

It is possible to record data for the same conditions by (1) saving the settings, (2) reading this setting.



When "Save Settings" is clicked, the following window is displayed.

Enter the required name in the name box.

The initial setting is to display Setting 1.

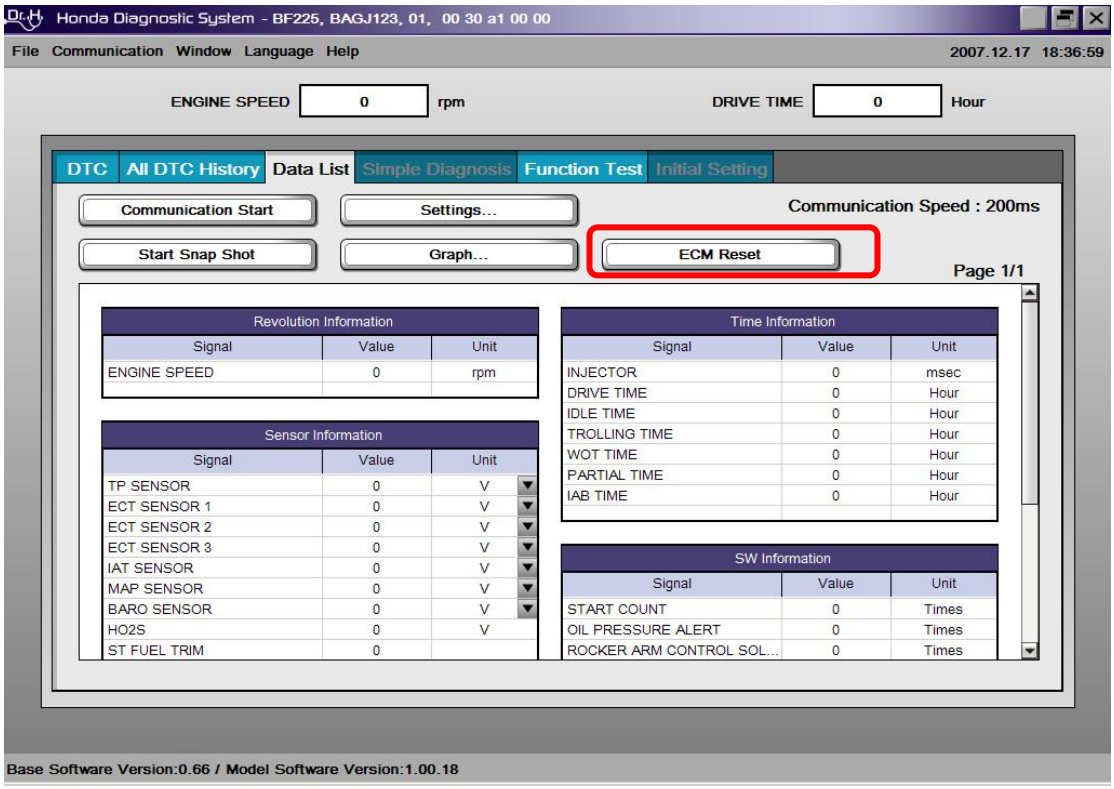
When "Load settings" is clicked, the following message appears.

The saved name is shown in the profile list.

When the name shown in the profile list is selected, it is possible to record the snapshot under the same conditions that were used with this name.

ECU reset function

Click "ECM Reset"Delete ECM value.

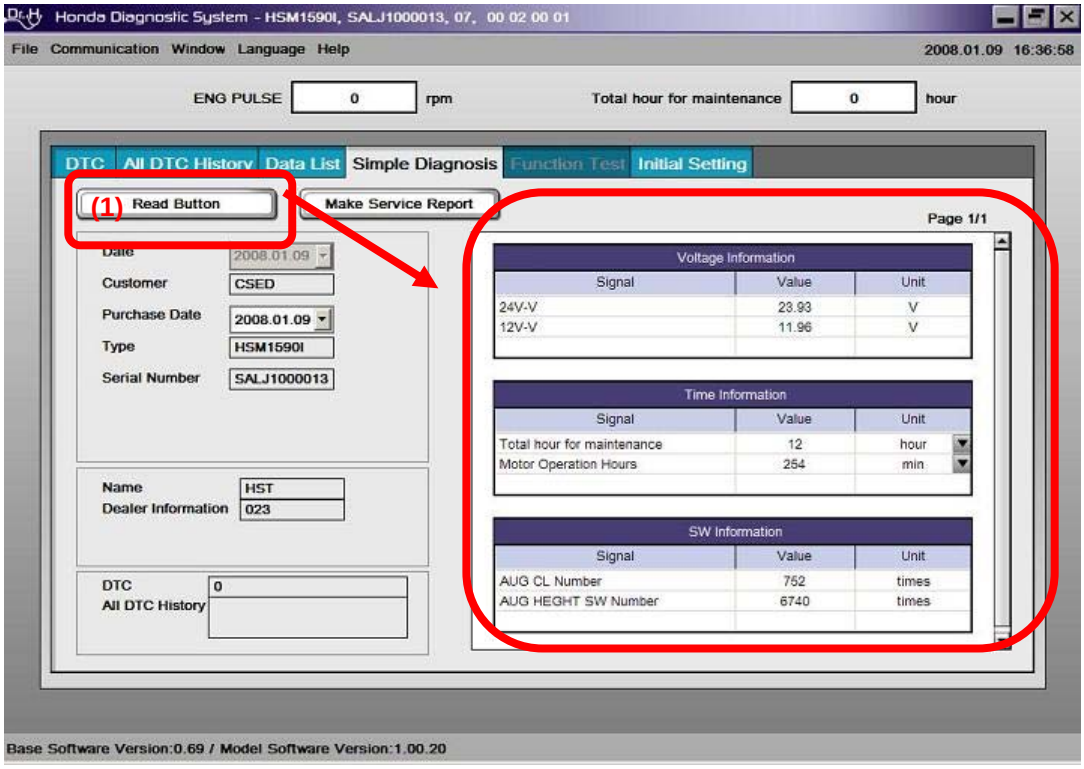


When the following message appears, click "Yes" to execute it.

11 - 4. Simple diagnosis

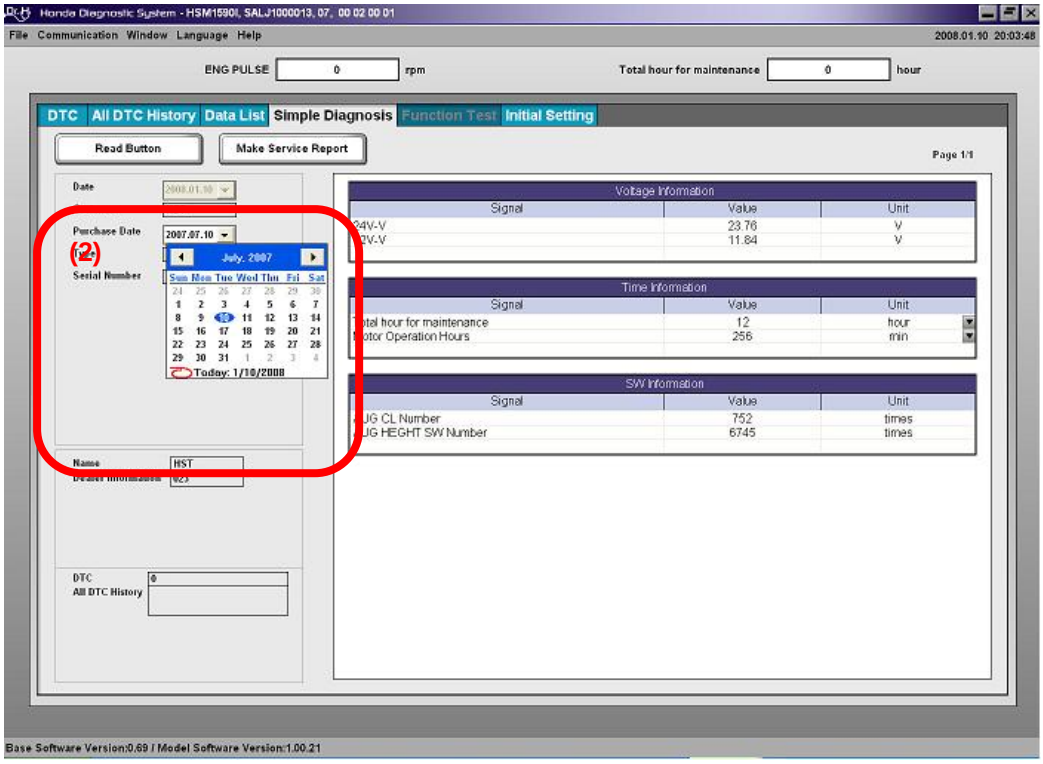
This function enables you to make a print out showing the condition of the product during periodic inspections, and to provide information to clients in the form of reports.

1. When the "Read button" is clicked, the data is displayed to the right of the screen.



2. You can enter the purchase date.

The initial setting is for the current date (2). Change this to the purchase date using the calendar function.

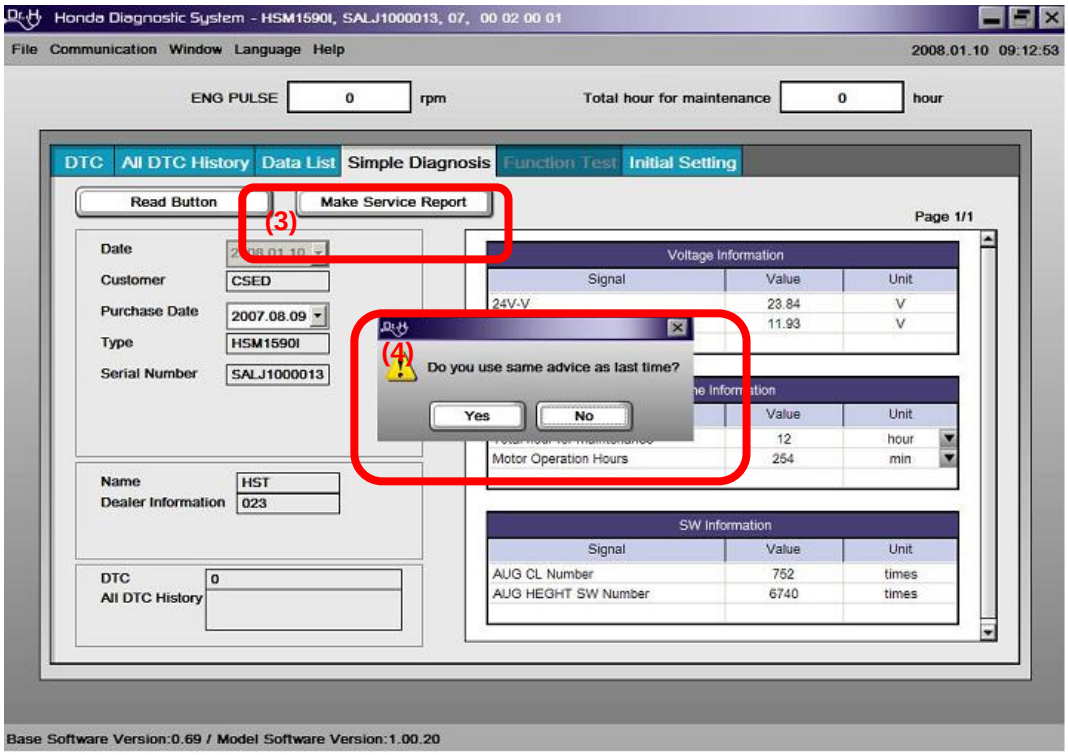


3. In the service report it is possible to add comments for the customer and insert images.

Click on the "Make Service Report" button (3) to compile the service report.

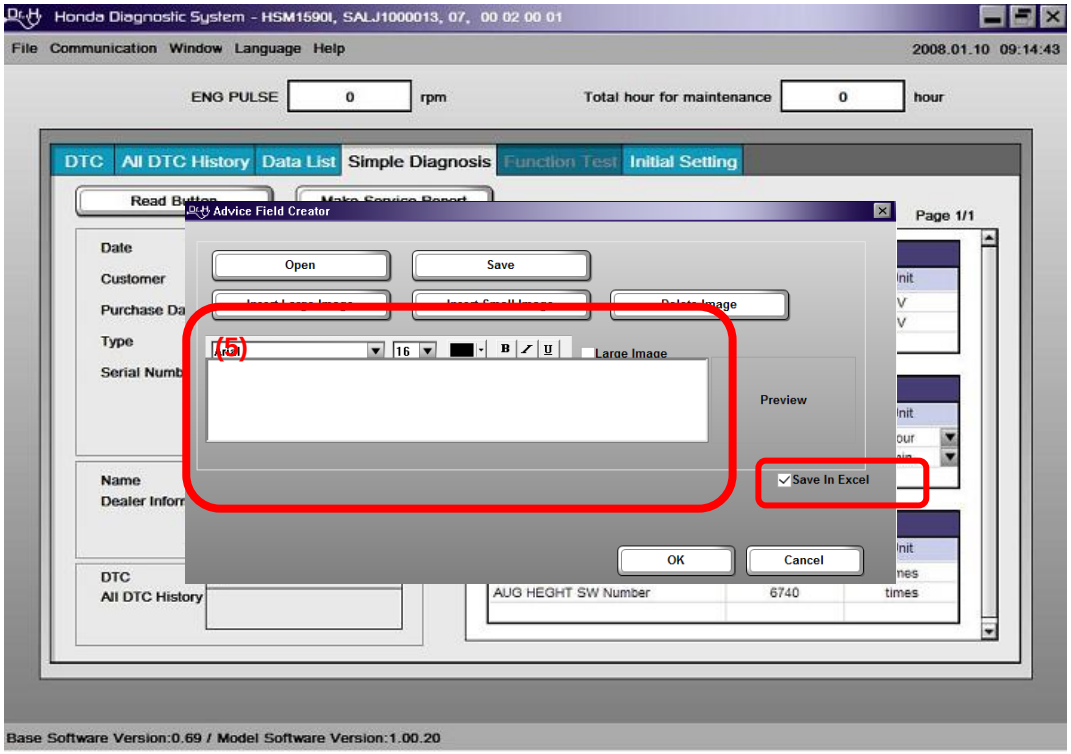
The following "Service Report" message appears.

Select "No" when using for first time.



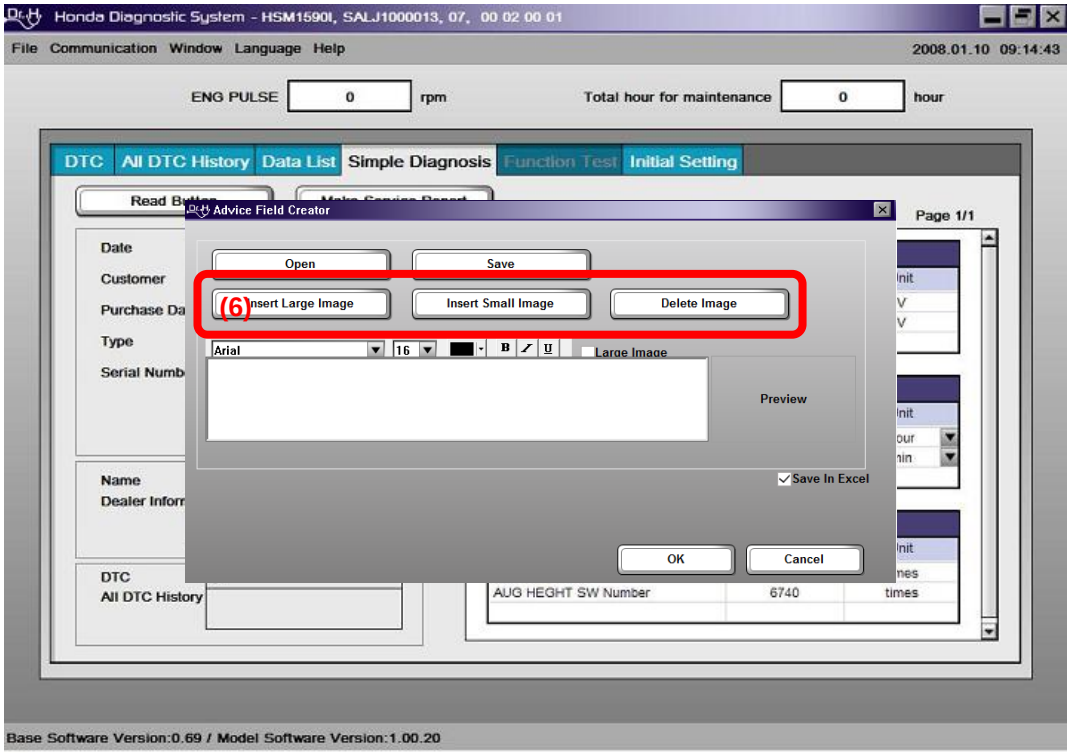
4. You can choose the fonts and letter sizes to be used when writing the comments.

Check “Save In Excel” check box if you want to save Service Report in excel file.



5. Inserting image

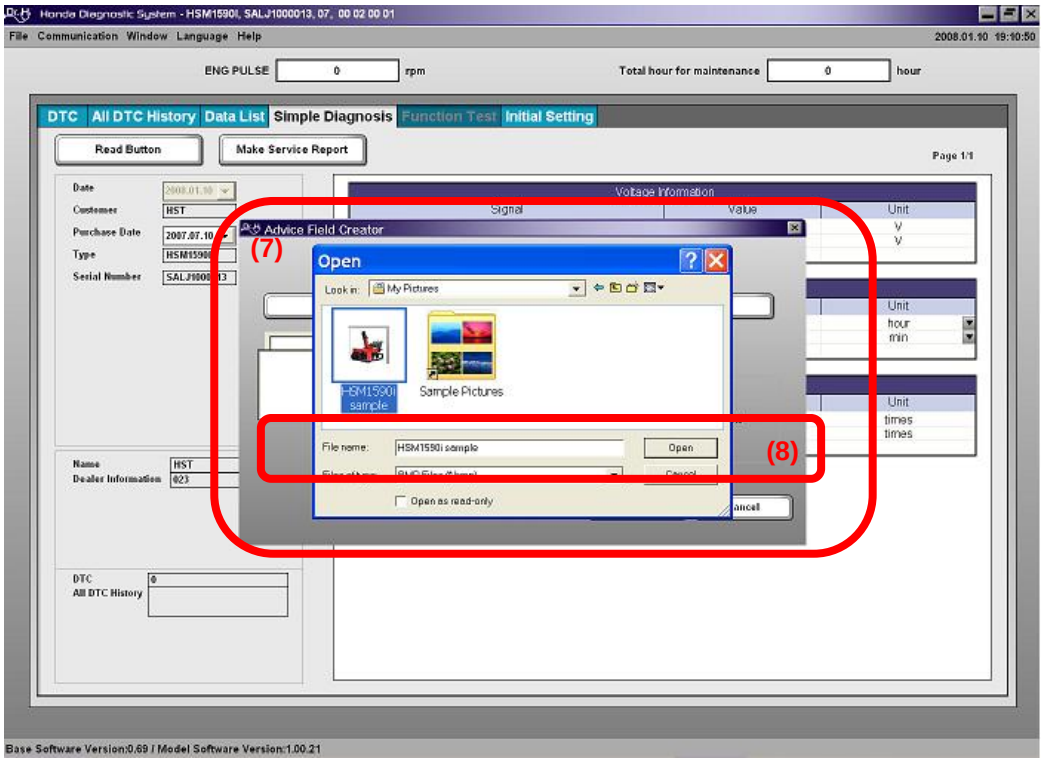
- 1. To insert an image into the report click the "Insert Image" button (6).



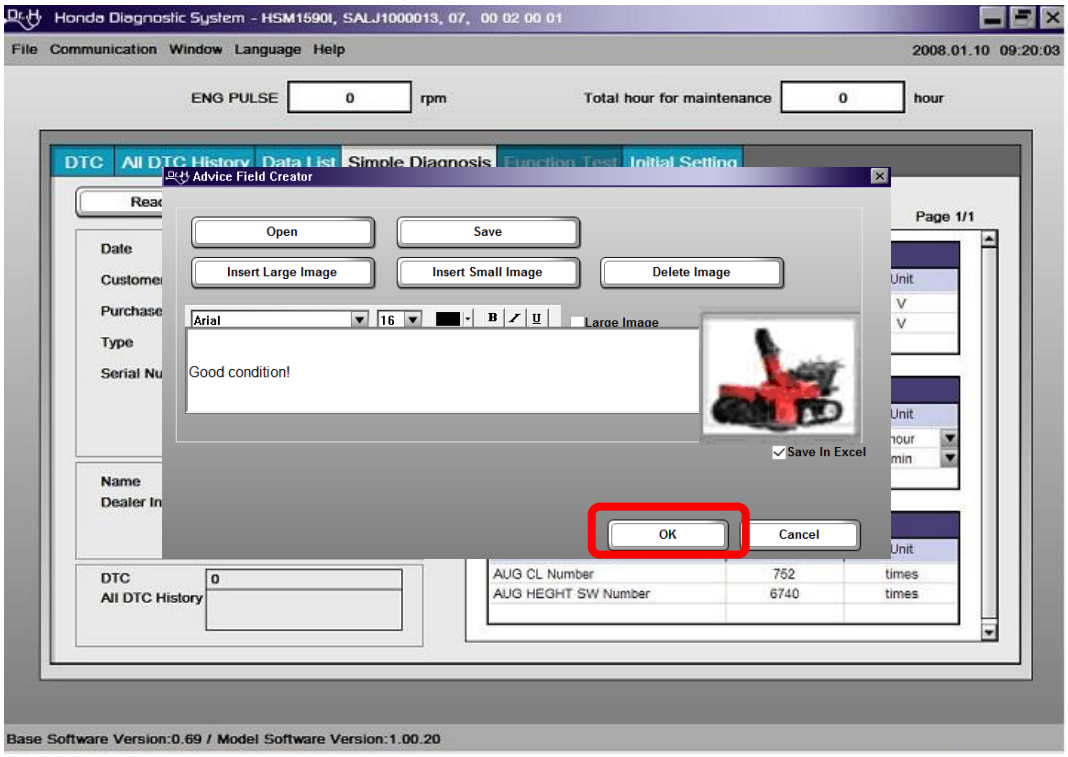
- 2. The image file is read when the "Insert Image" button is clicked.

(7) The "Open File" screen is displayed.When the image is selected, click "Open".

(Make sure you have already prepared the image)


Honda Diagnostic System - HSM1590I, SALJ1000013, 07, 00 02 00 01
File Communication Window Language Help
ENG PULSE 0 rpm
Total hour for maintenance 0 hour
DTC All DTC History Data List Simple Diagnosis Function Test Initial Setting
Read Button
Make Service Report
Advice Field Creator
(7)
Open
Look in: My Pictures
Sample Pictures
File name: HSM1590i sample
Open
(8)
Open as read-only
Base Software Version:0.69 / Model Software Version:1.00.21

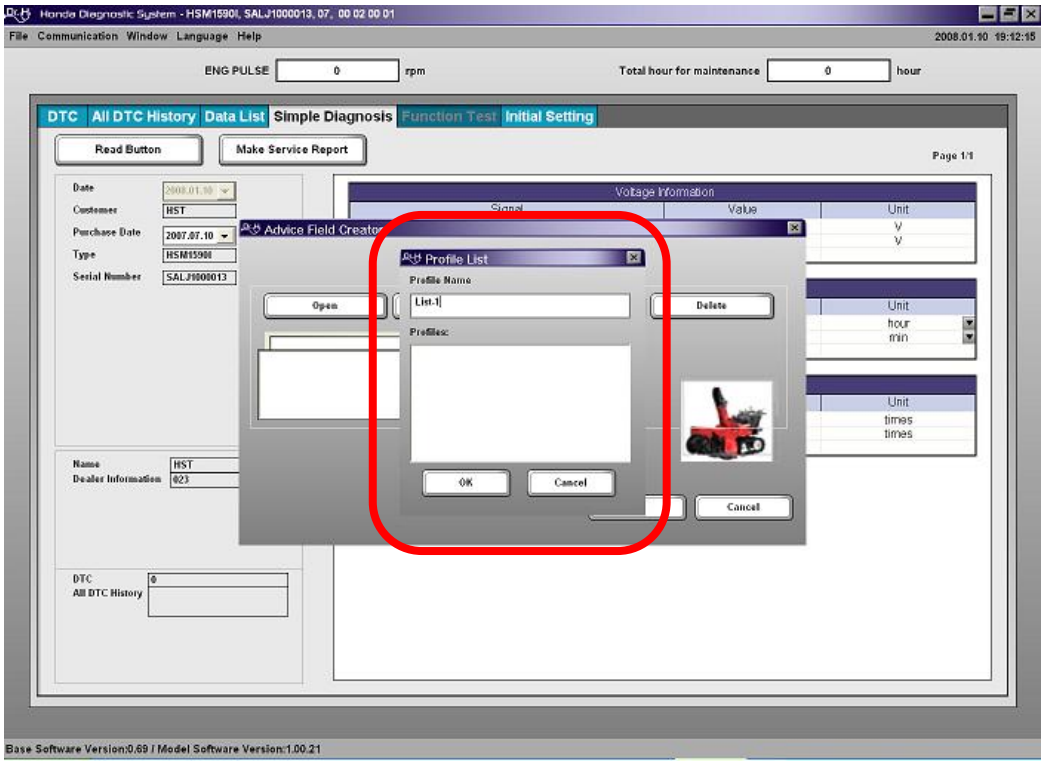
6. When finished entering comments and inserting images, click "OK".



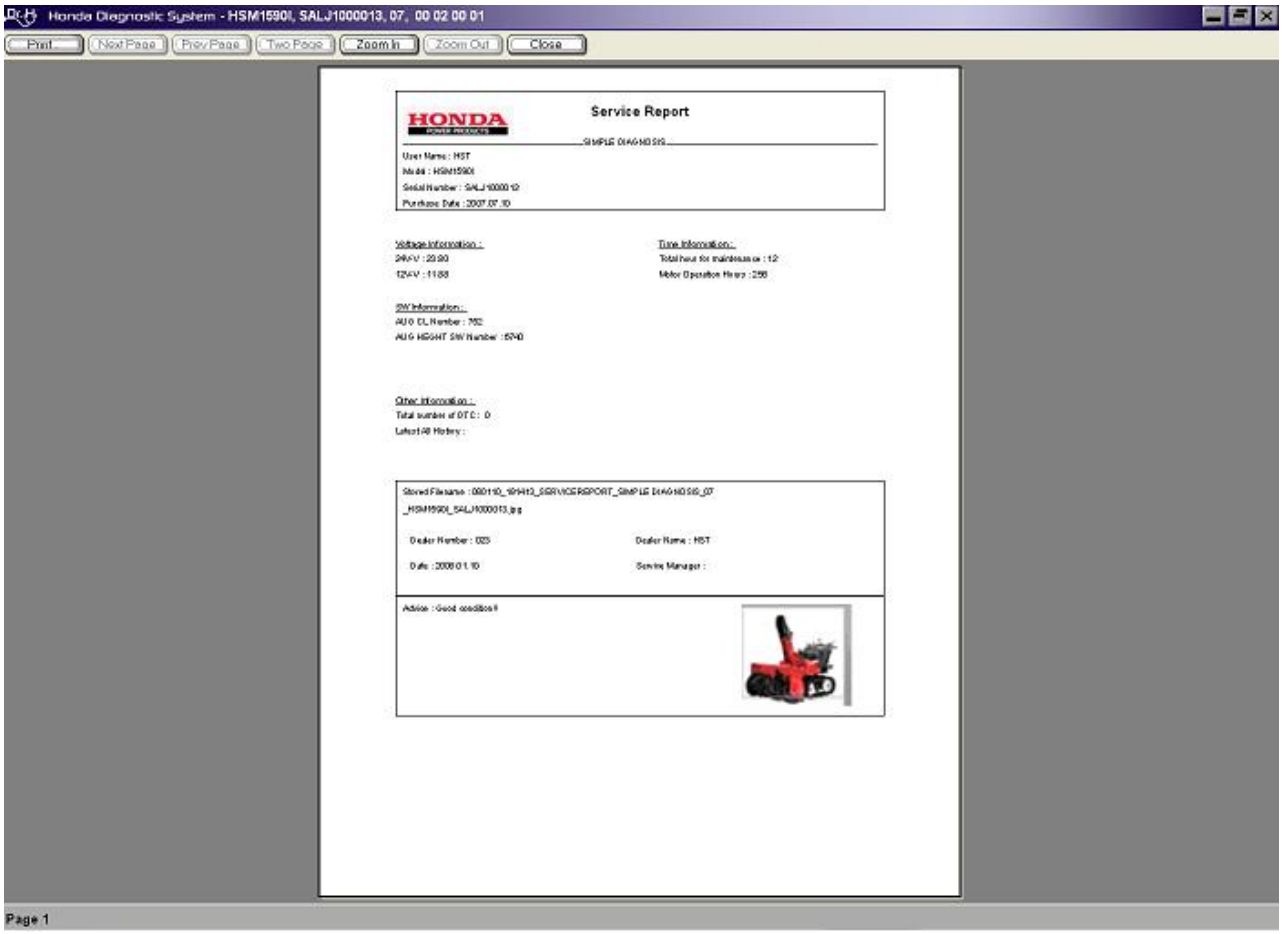
7. The following profile list is displayed. Enter name if desired.

It is possible to save the setting for the image and the comments that were entered.

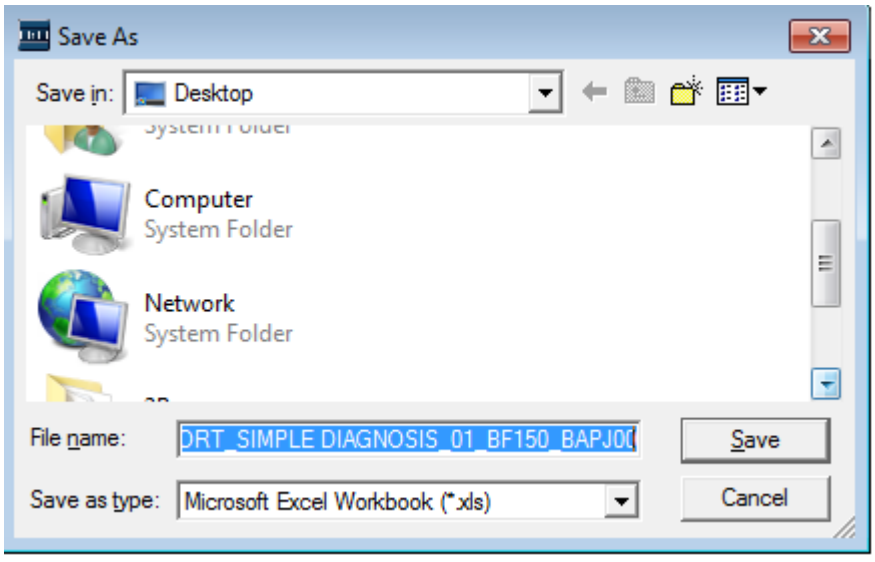
Click "OK". Print image window comes up.



8. This is the print preview window.



9. “Save As” window opens when you check “Save In Excel” check box.



11 - 5. Function test

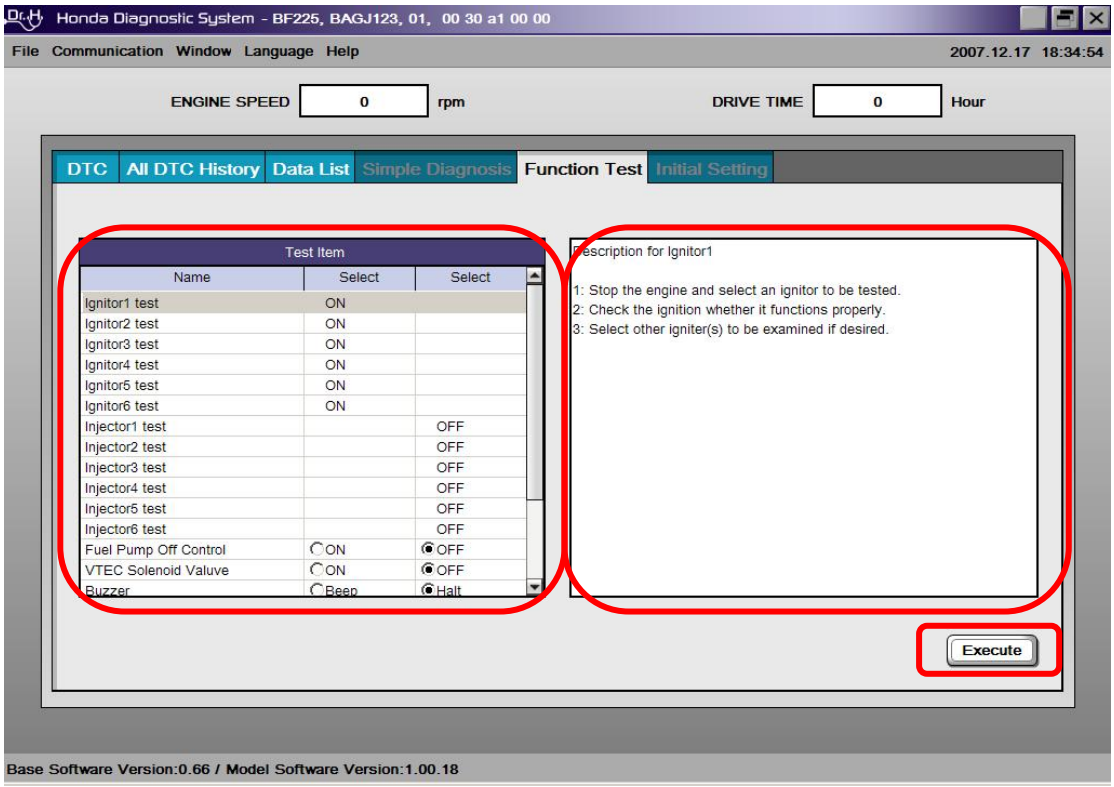
The function test window displays each type of test that can be performed.

The test items are shown in the left area of the screen.The test items are different for each model.

There is an explanation of each selected test item in the right area of the screen.

To perform the test items, click the "Execute" button in the lower right-hand corner of the screen.

A function test is performed to check the operation for each product device.

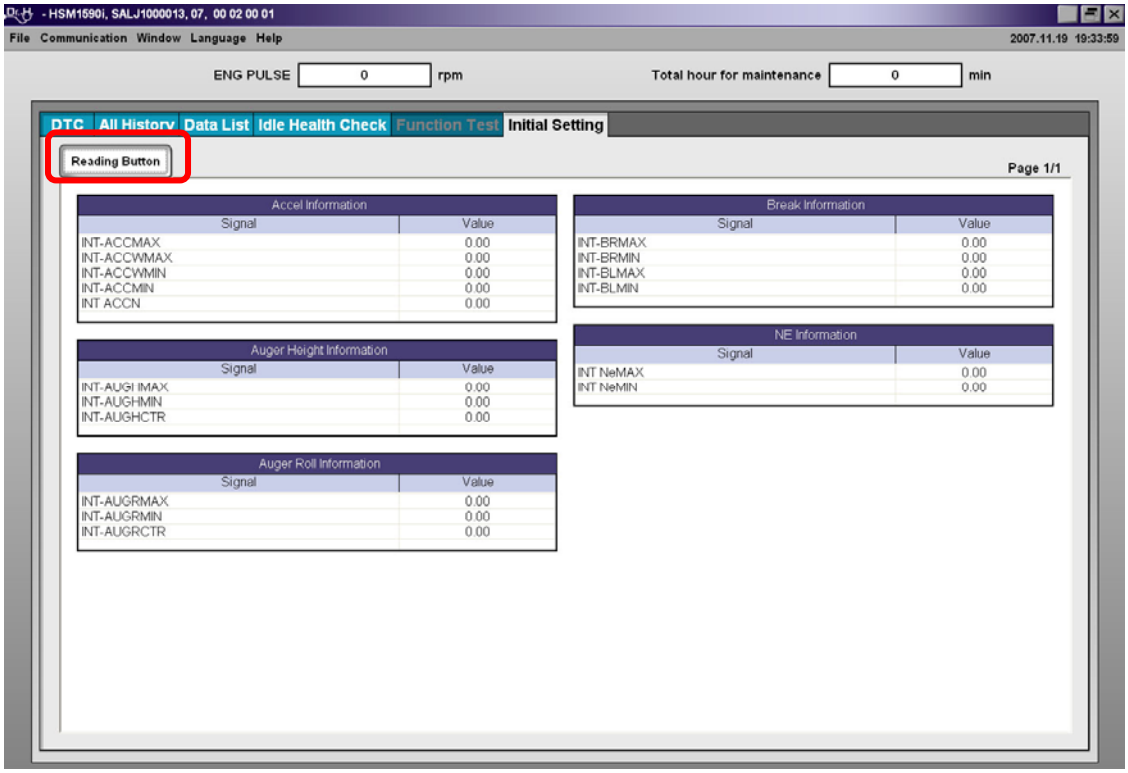


11 - 6. Initial setting

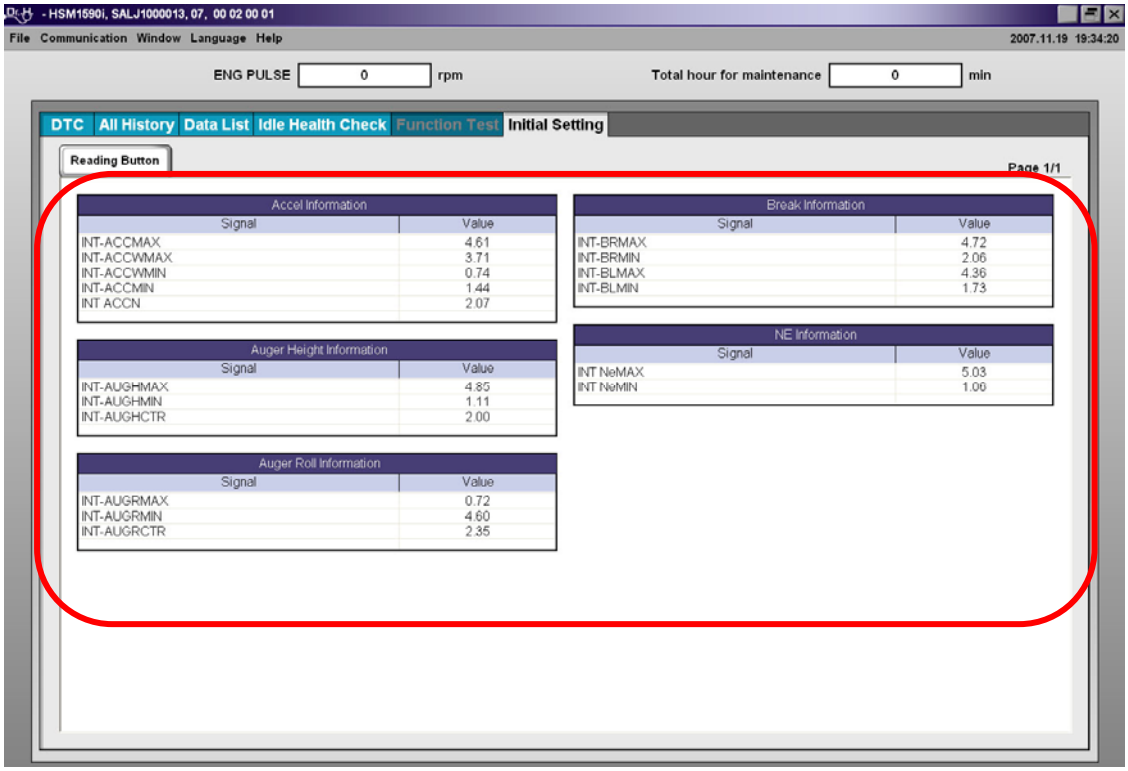
This displays the initially set value recorded in the ECU installed in the iGX engine.

*The sample window is for a snow plow.

Click "Read".



The initial values are displayed. It is possible to use this for diagnostic examinations by making comparisons with current values in the data list.



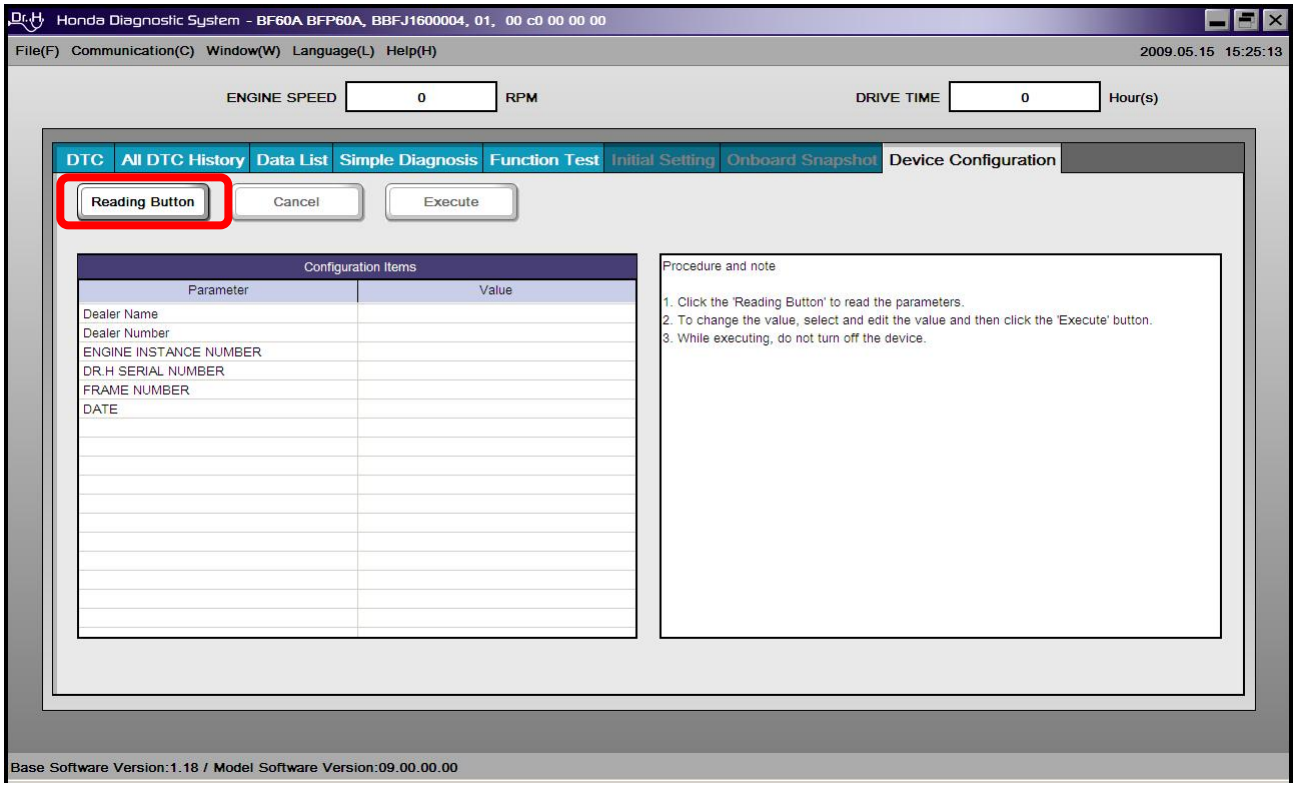
11 - 7. Device Configuration

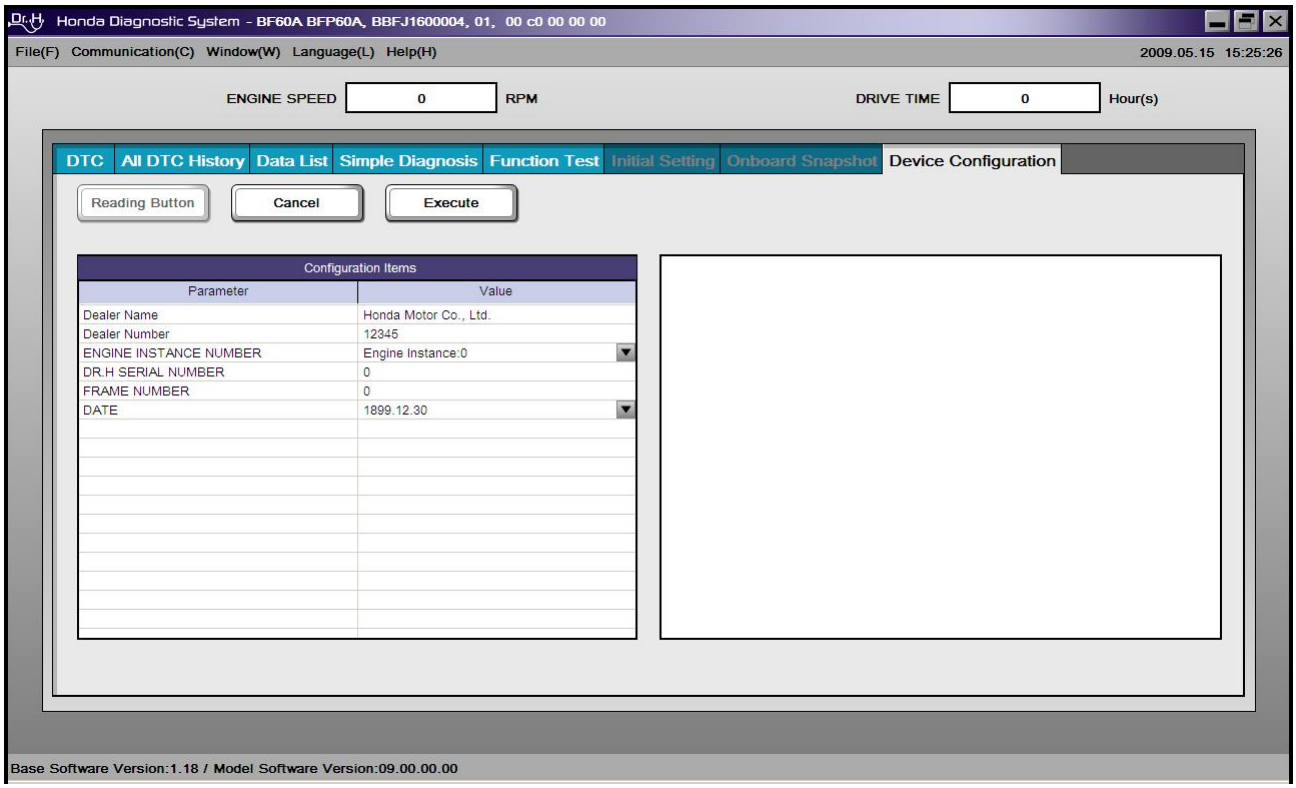
This mode will allow you to configure Engine Instance for multiple engines. .

The configuration is not required for a single engine.

“Device Configuration” tab is deactivated when ECM does not support this mode.

Clicking “Reading Button” will display the stored signal value.


Honda Diagnostic System - BF60A BFP60A, BBFJ1600004, 01, 00 c0 00 00 00
File(F) Communication(C) Window(W) Language(L) Help(H)
2009.05.15 15:25:13
ENGINE SPEED 0 RPM
DRIVE TIME 0 Hour(s)
DTC All DTC History Data List Simple Diagnosis Function Test Initial Setting Onboard Snapshot Device Configuration
Reading Button
Cancel
Execute
Configuration Items
Parameter
Value
Dealer Name
Dealer Number
ENGINE INSTANCE NUMBER
DR.H SERIAL NUMBER
FRAME NUMBER
DATE
Procedure and note
1. Click the 'Reading Button' to read the parameters.
2. To change the value, select and edit the value and then click the 'Execute' button.
3. While executing, do not turn off the device.
Base Software Version:1.18 / Model Software Version:09.00.00.00

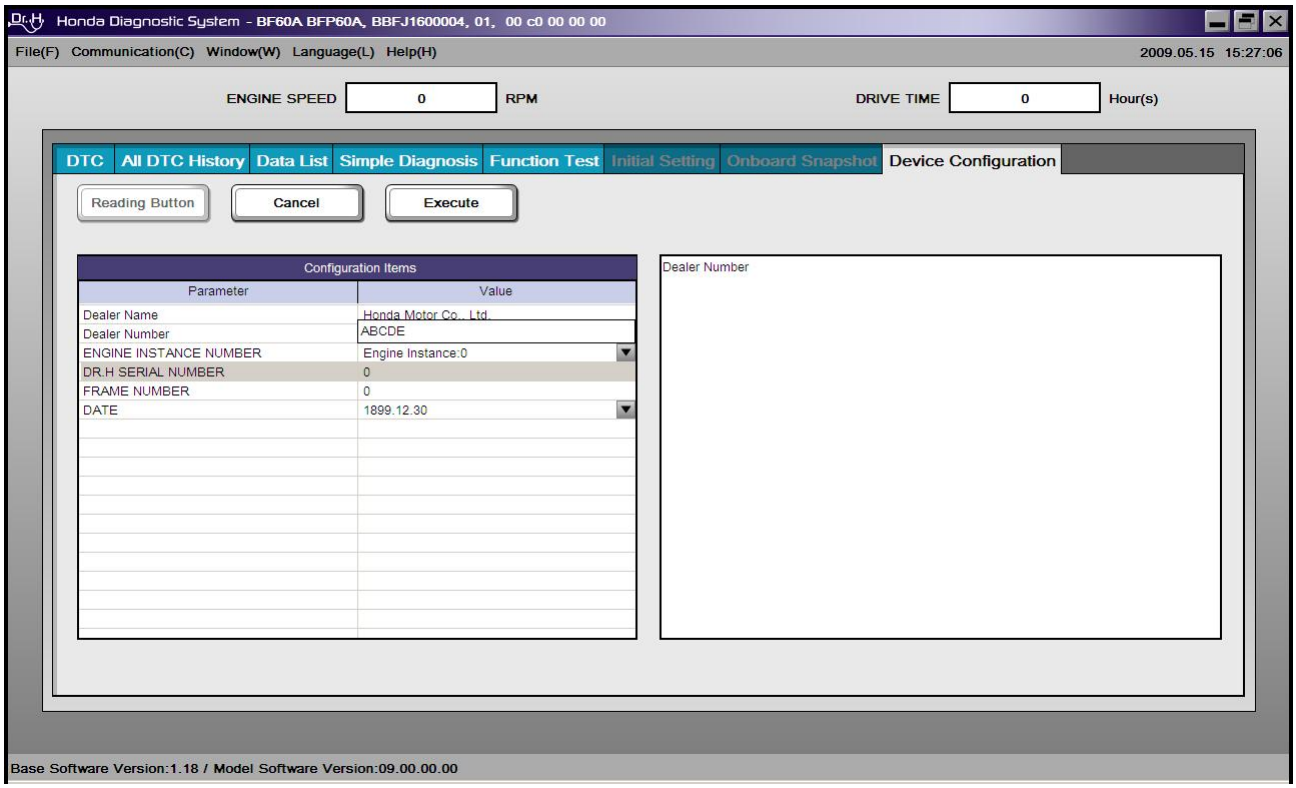


Select signals to be changed and change the value according to the procedures

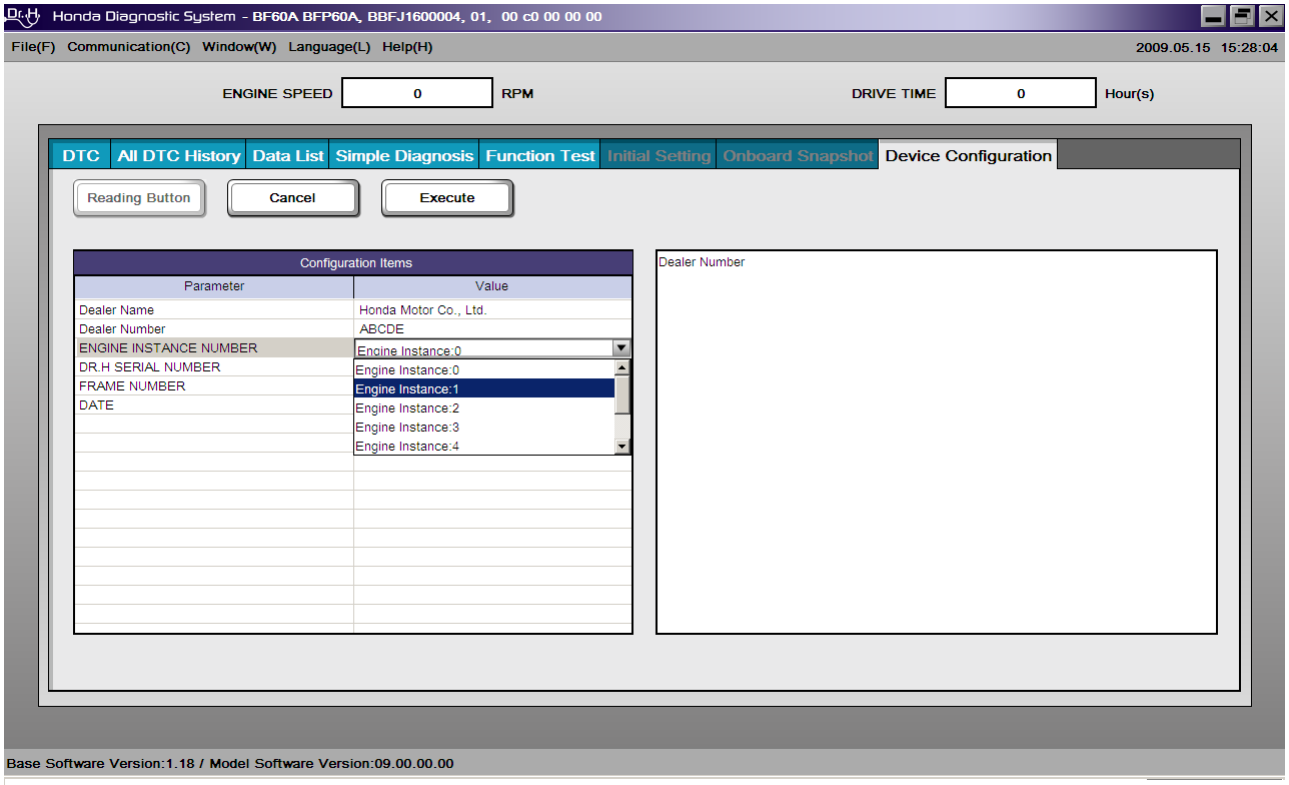
Device Configuration Procedures:

Dealer Name and Dealer Code are the values entered by the user while installing the Dr.H application.

Select signals to be changed and change the value if needed.



Select Engine Instance Number to be changed in drop-down selection boxes



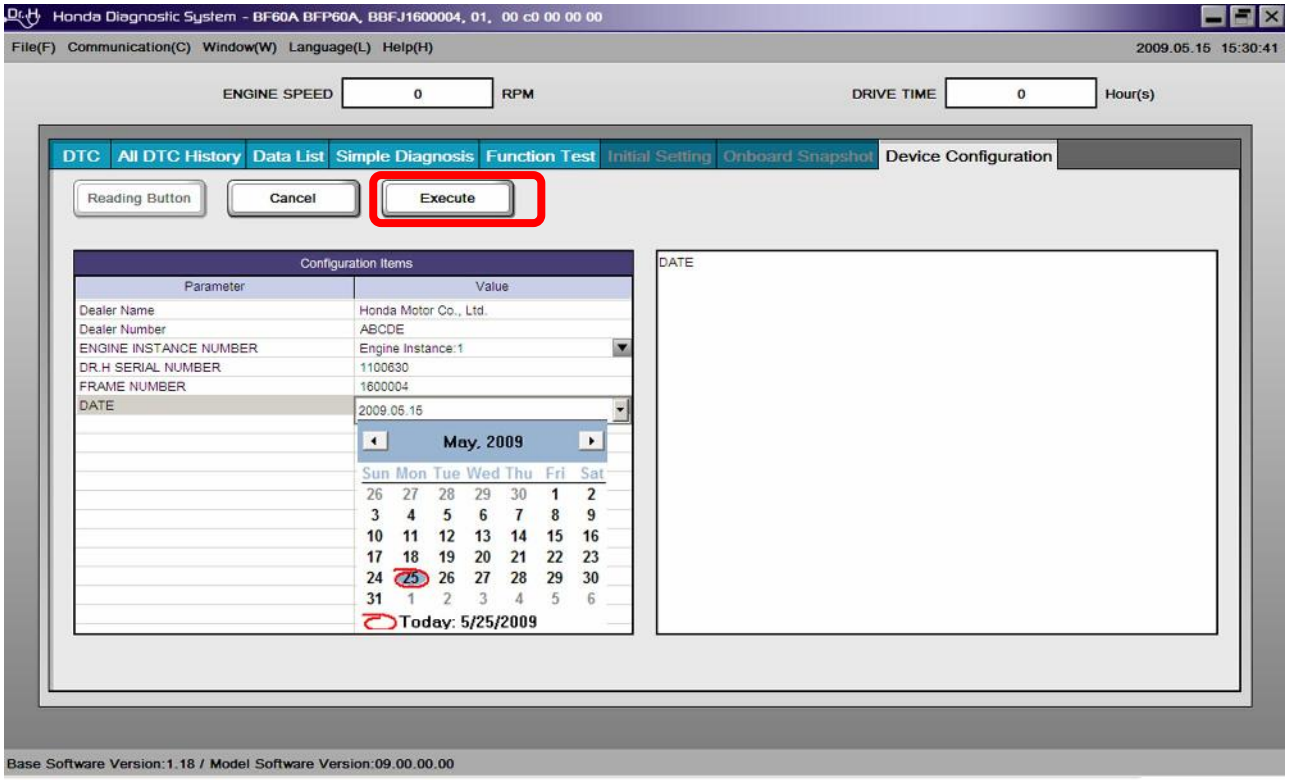
Enter your 7 digit Dr.H Serial Number.

Enter 7 digit Frame Number.

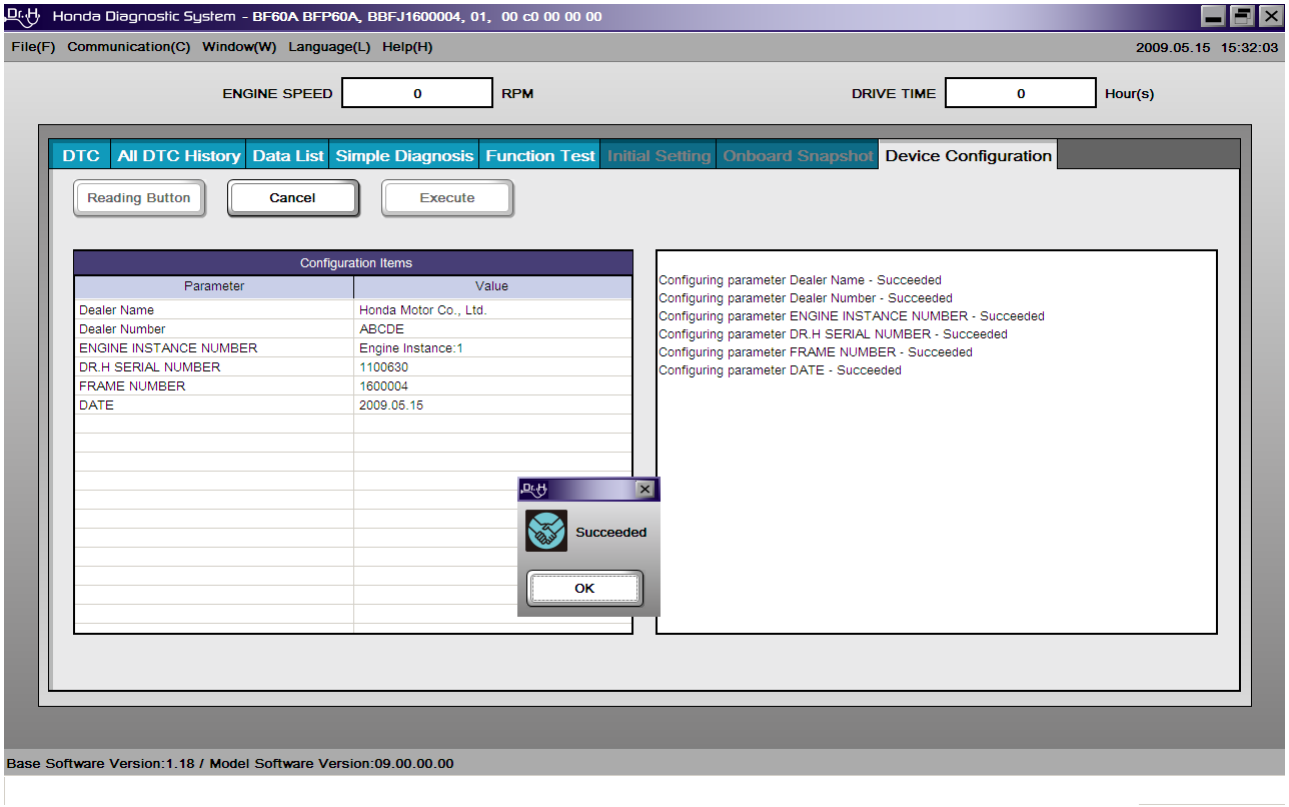
Set the date using the calendar.

Once all selections have been made, an Execute button will be available.

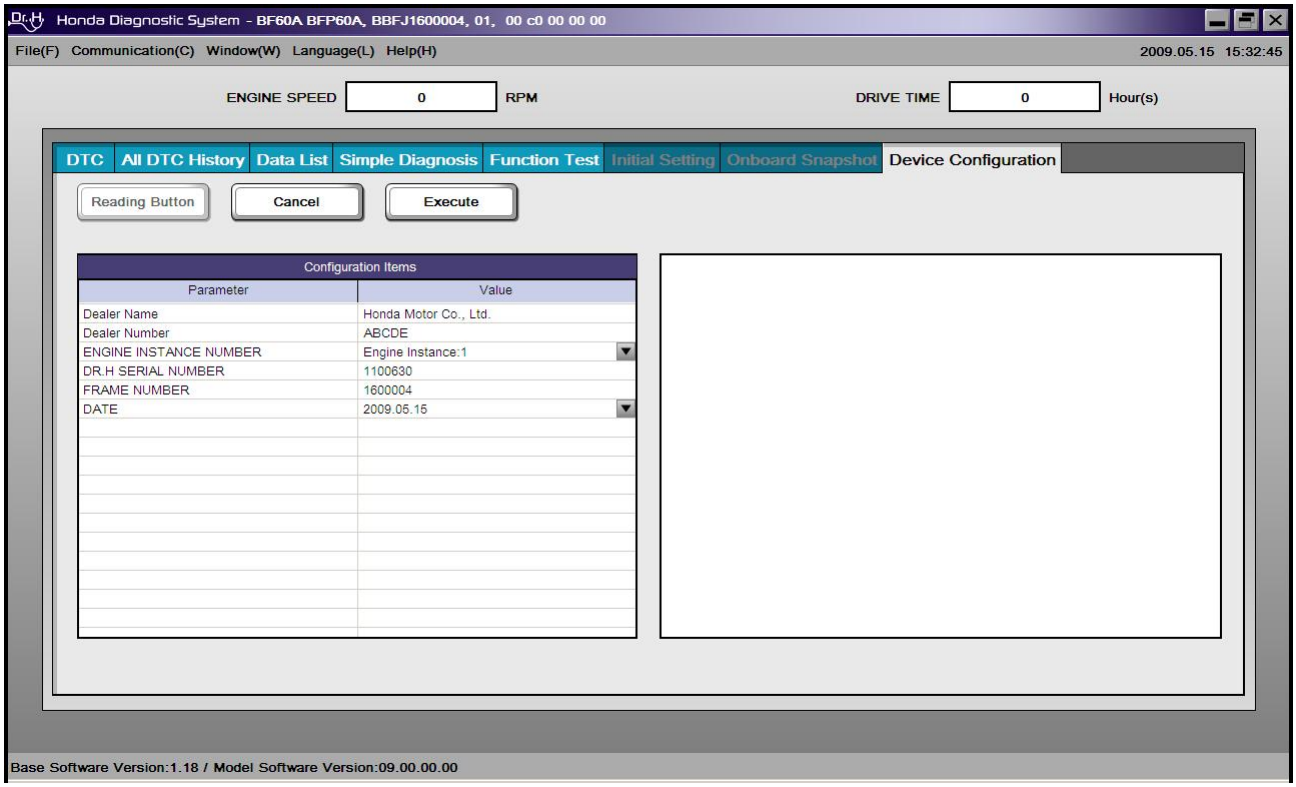
Click Execute button to change the device configuration.



Please do not turn off the combination switch (Ignition Switch) during configuration.



Clicking “Reading Button” will display the changed signal value.



11 - 8. Onboard Snapshot

When data is stored in the ECM memory, the data is retrieved from the ECM.

Onboard Snapshot triggers when DTC occurs and stores the data in the ECM memory for 3 seconds before and for 1 second after the trigger occurs.

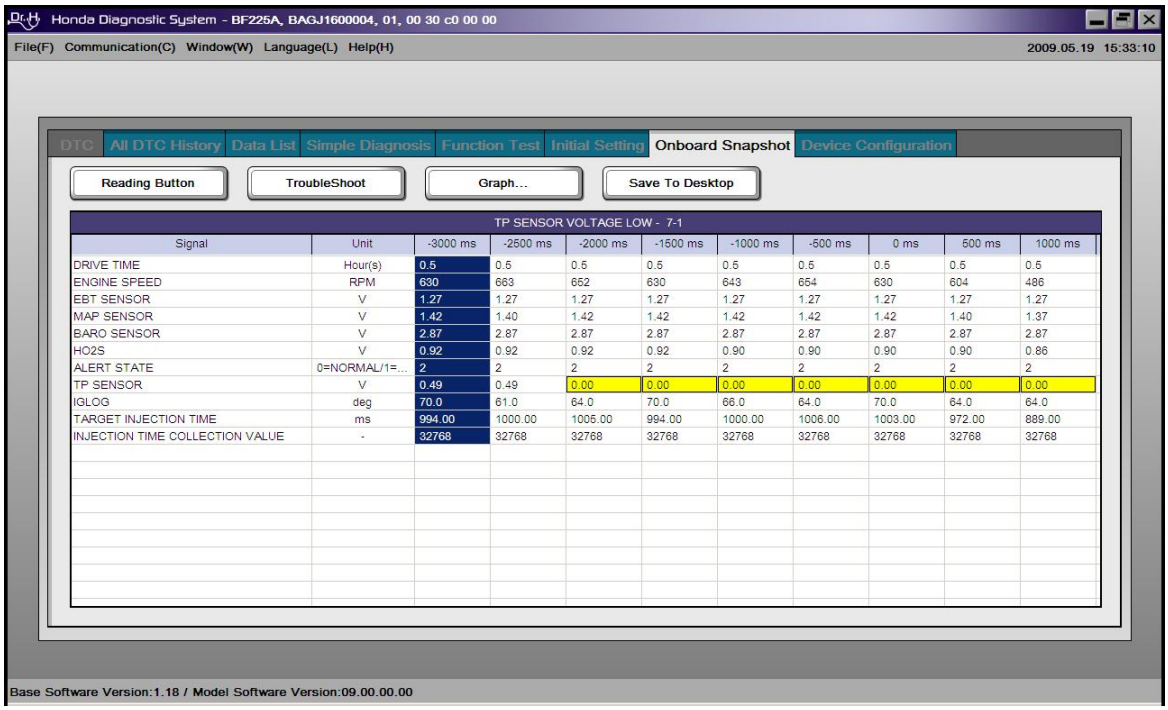
“Onboard Snapshot” tab is deactivated when ECM does not support this mode.

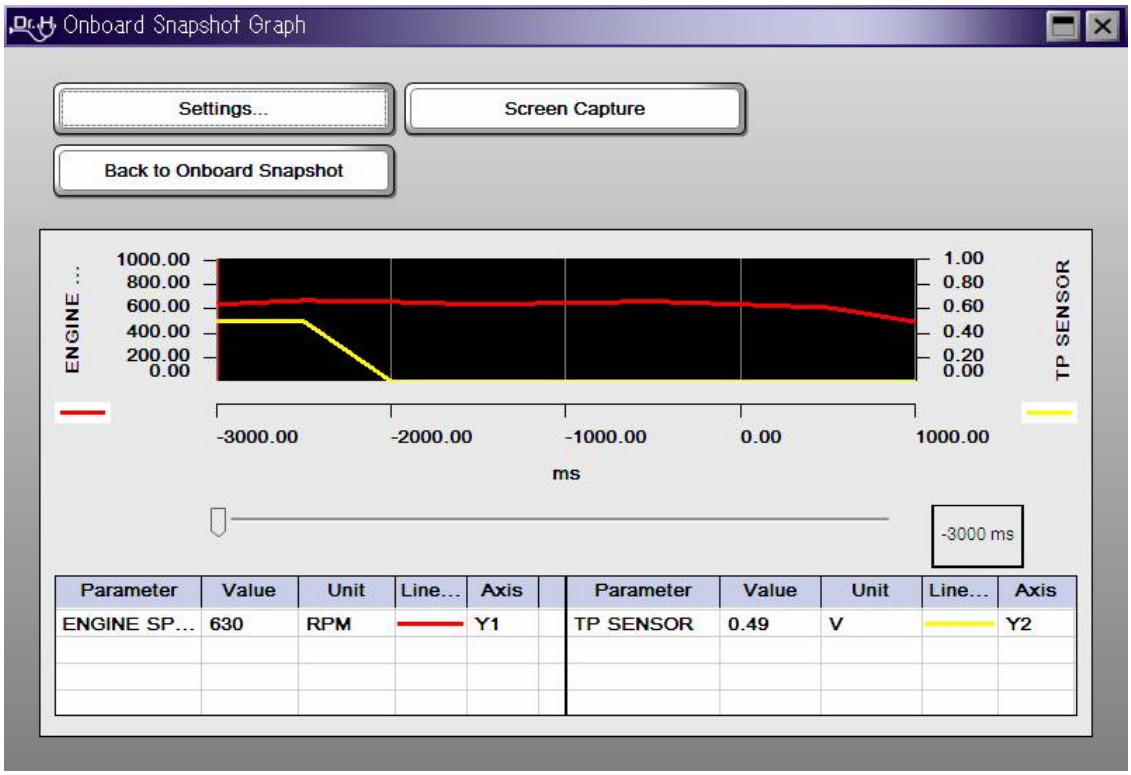
Onboard Snapshot data is cleared when DTC is cleared.

Clicking “Reading Button” will display the stored data.

Irregular signals are highlighted in yellow.

The link for troubleshooting and the graph display function are also available.


Honda Diagnostic System - BF225A, BAGJ1600004, 01, 00 30 c0 00 00
File(F) Communication(C) Window(W) Language(L) Help(H)
2009.05.19 15:33:10
DTC
All DTC History
Data List
Simple Diagnosis
Function Test
Initial Setting
Onboard Snapshot
Device Configuration
Reading Button
TroubleShoot
Graph...
Save To Desktop
TP SENSOR VOLTAGE LOW - 7-1
Signal | Unit | -3000 ms | -2500 ms | -2000 ms | -1500 ms | -1000 ms | -500 ms | 0 ms | 500 ms | 1000 ms
DRIVE TIME | Hour(s) | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5
ENGINE SPEED | RPM | 630 | 663 | 662 | 630 | 643 | 654 | 630 | 604 | 486
EBT SENSOR | V | 1.27 | 1.27 | 1.27 | 1.27 | 1.27 | 1.27 | 1.27 | 1.27 | 1.27
MAP SENSOR | V | 1.42 | 1.40 | 1.42 | 1.42 | 1.42 | 1.42 | 1.42 | 1.40 | 1.37
BARO SENSOR | V | 2.87 | 2.87 | 2.87 | 2.87 | 2.87 | 2.87 | 2.87 | 2.87 | 2.87
HO2S | V | 0.92 | 0.92 | 0.92 | 0.92 | 0.90 | 0.90 | 0.90 | 0.90 | 0.86
ALERT STATE | 0=NORMAL/1=... | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2
TP SENSOR | V | 0.49 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00
IGLOG | deg | 70.0 | 61.0 | 64.0 | 70.0 | 66.0 | 64.0 | 70.0 | 64.0 | 64.0
TARGET INJECTION TIME | ms | 994.00 | 1000.00 | 1005.00 | 994.00 | 1000.00 | 1006.00 | 1003.00 | 972.00 | 889.00
INJECTION TIME COLLECTION VALUE | - | 32768 | 32768 | 32768 | 32768 | 32768 | 32768 | 32768 | 32768 | 32768
Base Software Version:1.18 / Model Software Version:09.00.00.00



11 - 9. ECU Data Restoration

ECU Data Restoration will allow you to restore ECU Service parts to the initial ECU character.

ECU Data Management System stores ECU character. When you need to restore ECU character, download the file for the engine from the URL below.

ECU Data Management System URL：https://biz.honda.co.jp/fnk10/index.jsp

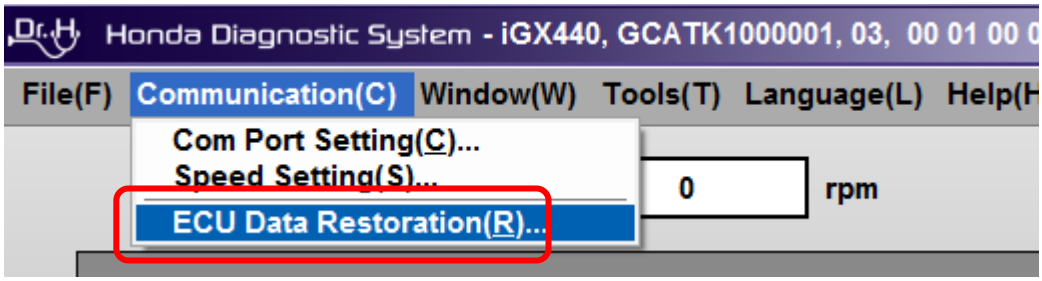
Enter the URL in IE and login into the system with your Web-ID and Password.

Download ECU character (data)

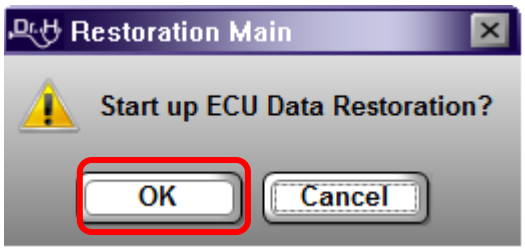
1. Connect iGX Engine and PC (Internet accessible) by Dr.H Unit and start communication.

Select “ECU Data Restoration(R)” from “Communication(C)” on the tool bar.

Note : Perform ECU Data Restoration with the engine off.

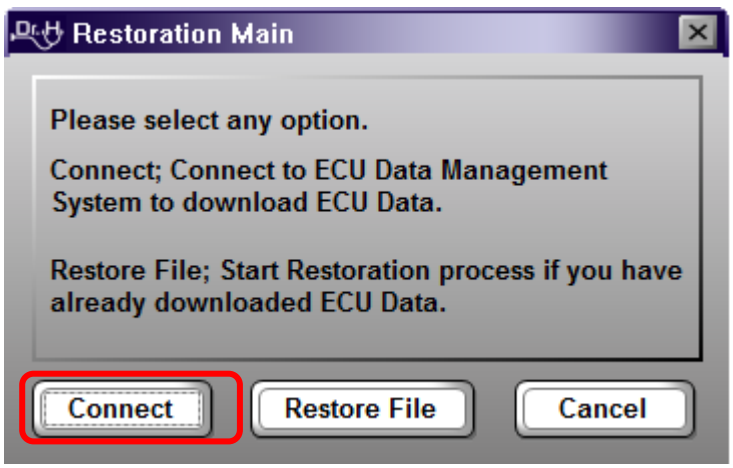


2. Click “OK”.

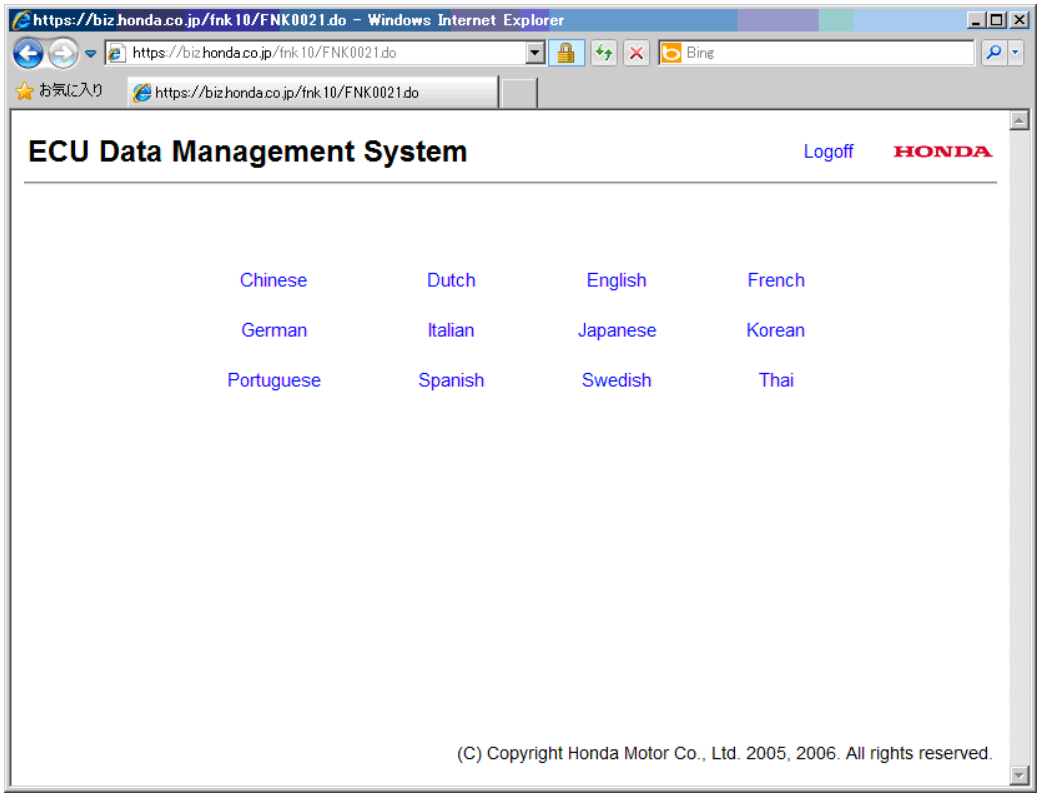


3. Click “Connect” to access to ECU Data Management System.

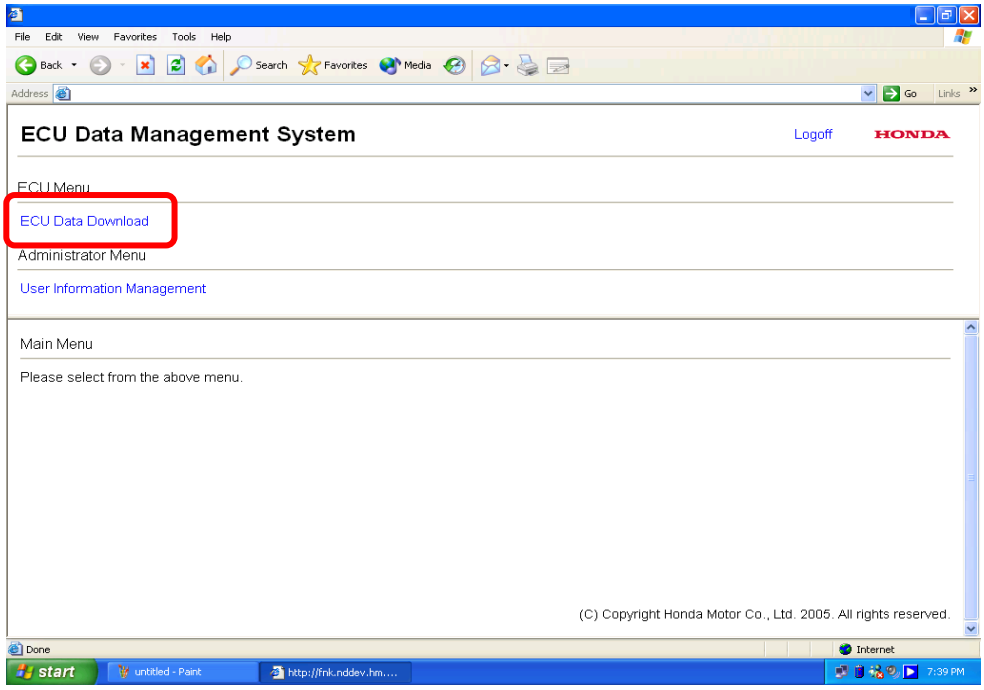
(If you have already downloaded ECU Data, click “Restore File” to go to the restoration process.


Restoration Main
Please select any option.
Connect; Connect to ECU Data Management System to download ECU Data.
Restore File; Start Restoration process if you have already downloaded ECU Data.
Connect
Restore File
Cancel

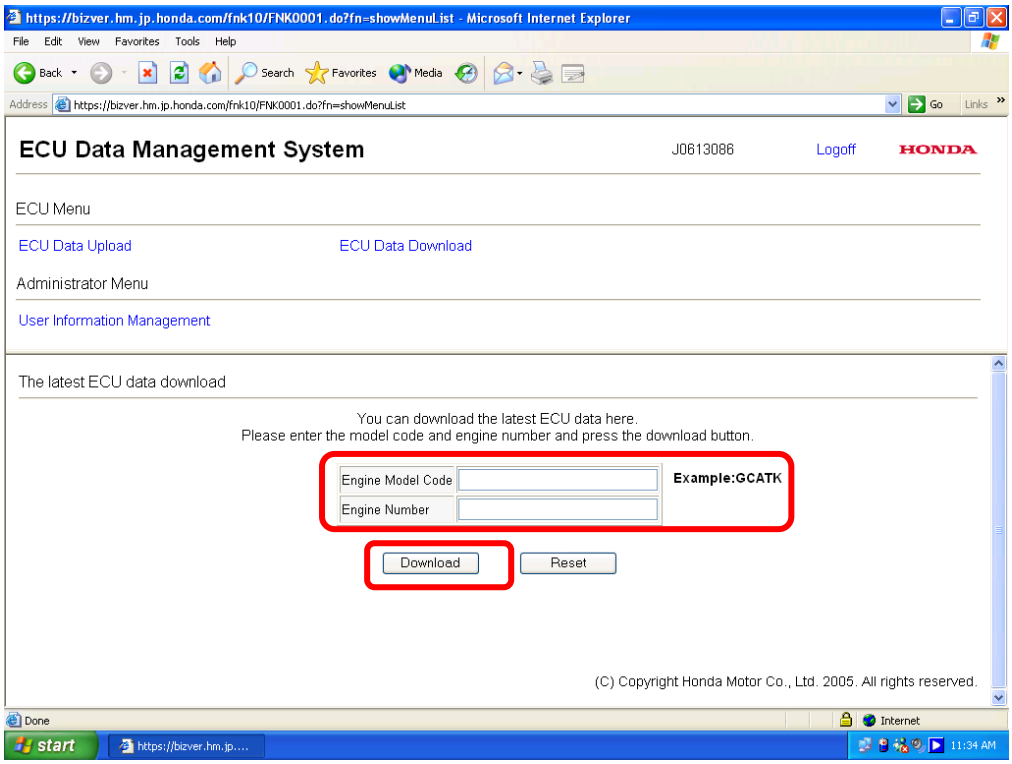
4. Select your language.



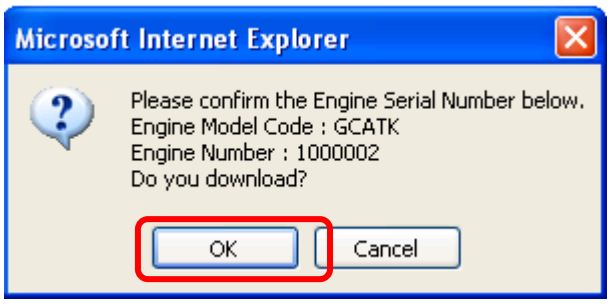
5. Click “ECU Data Download”.



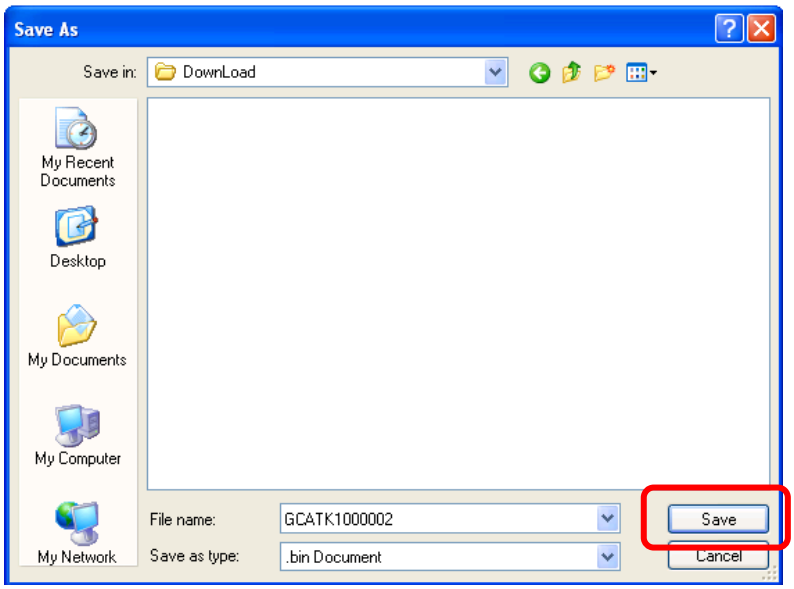
6. Enter Engine Model Code and Engine Number and click “Download”.



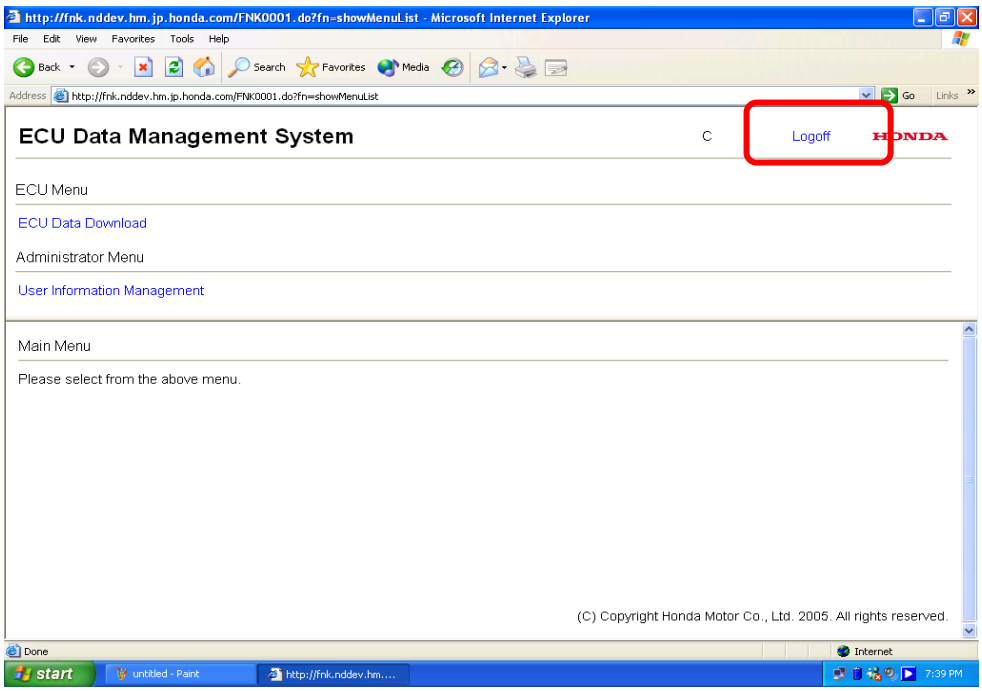
7. Confirm the Engine Serial Number and click “OK” to start downloading.



8. Select the destination for downloaded file and click “Save”.

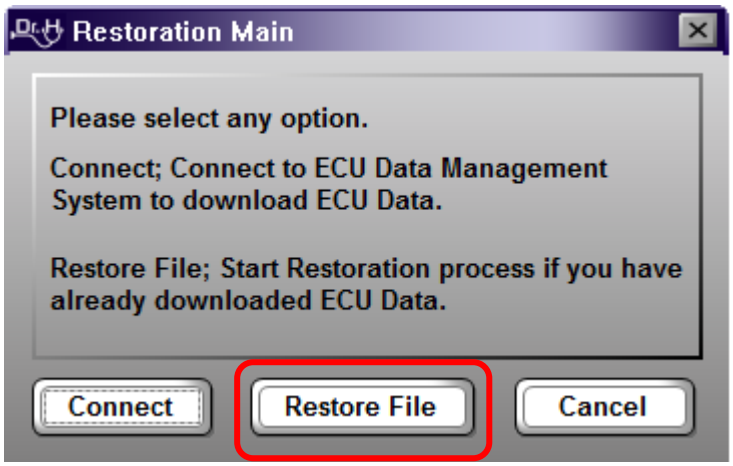


9. Logoff from ECU Data Management System.

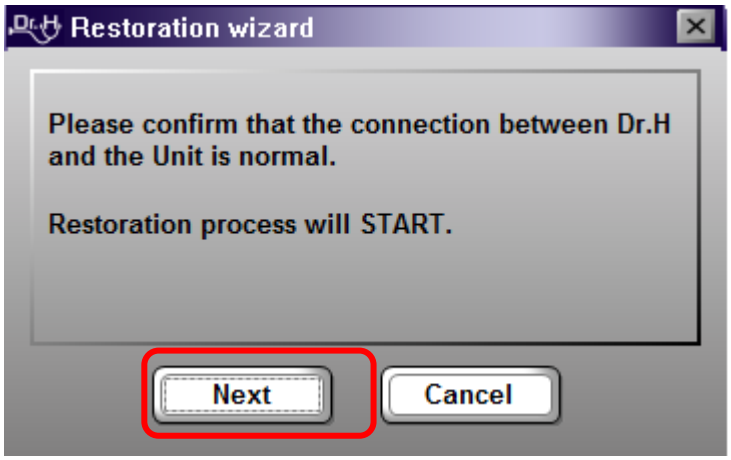


Restore ECU character (data)

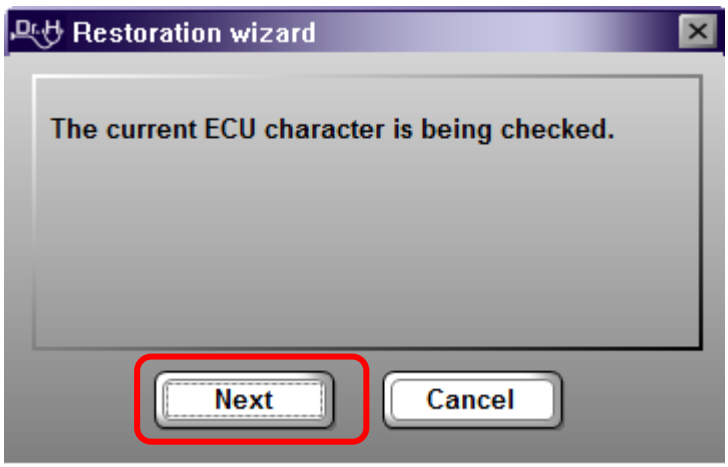
10. Click “Restore File”.


Restoration Main
Please select any option.
Connect; Connect to ECU Data Management System to download ECU Data.
Restore File; Start Restoration process if you have already downloaded ECU Data.
Connect
Restore File
Cancel

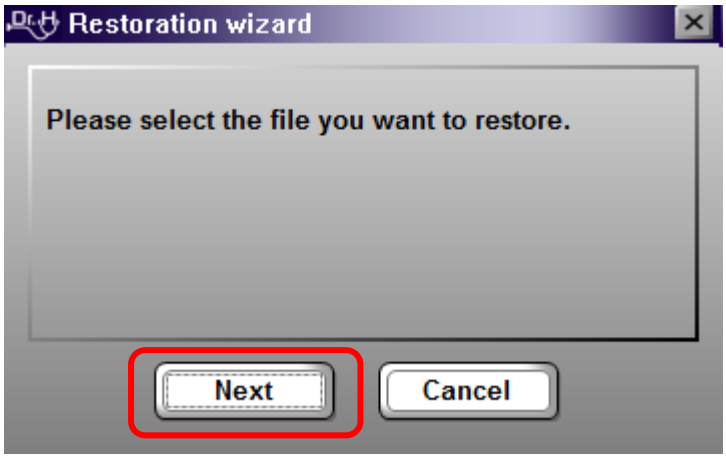
11. Check the connection between Dr.H and the unit, then click “Next”.


Restoration wizard
Please confirm that the connection between Dr.H and the Unit is normal.
Restoration process will START.
Next
Cancel

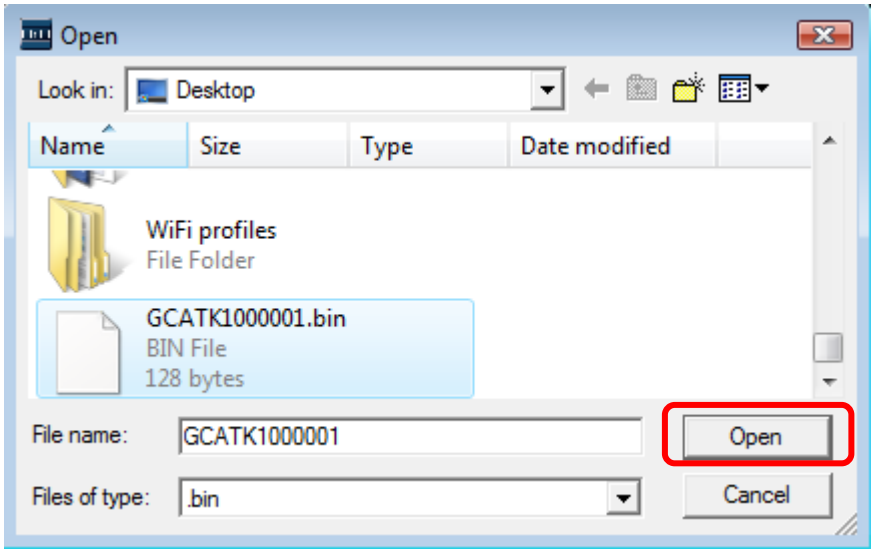
12. Click “Next”.



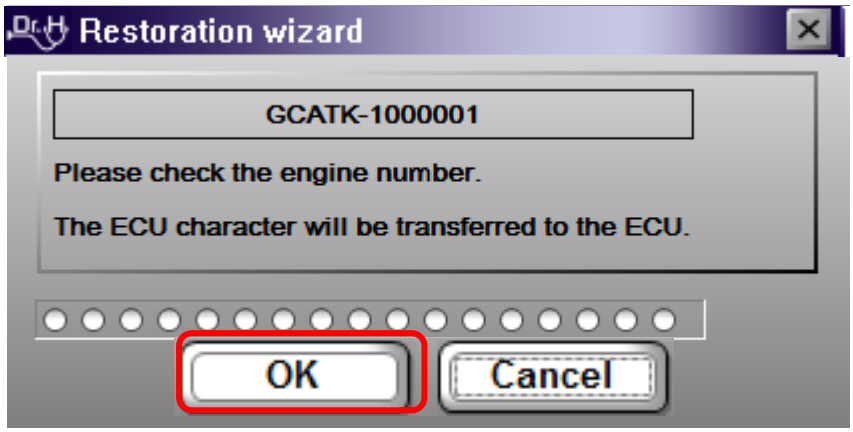
13. Click “Next” to go to the file selection screen.



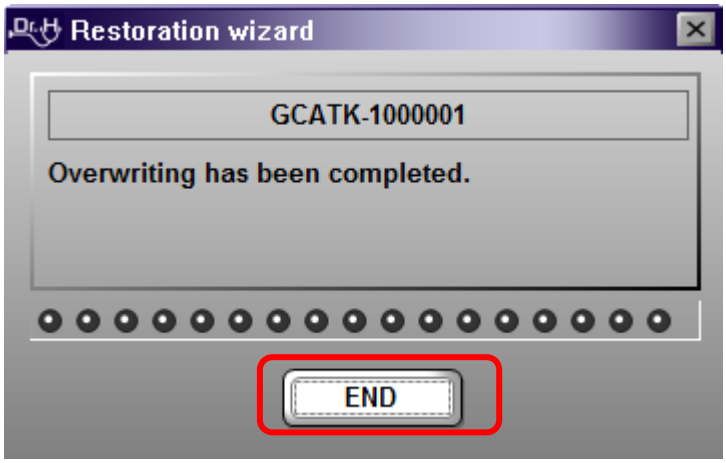
14. Select ECU Data file and click “Open”.



15. Check the Engine Serial Number. Click “OK” to start transferring the ECU character to the ECU.



16. Click “END” to exit ECU Data Restoration.

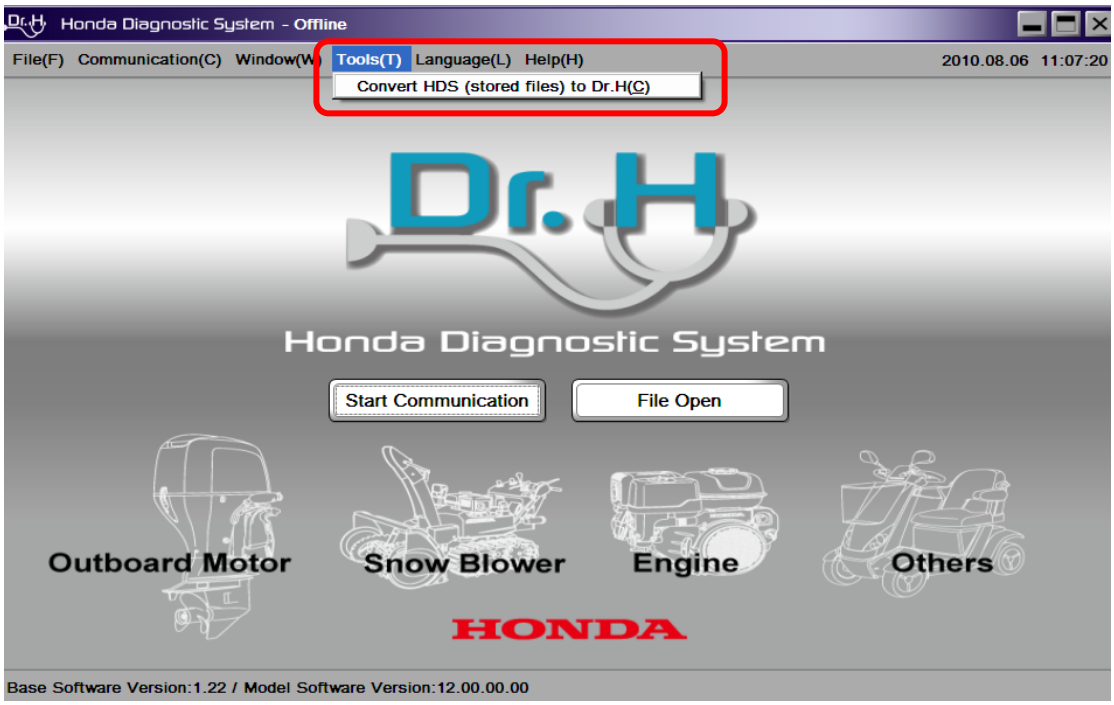


11 - 10. Review HDS stored files in Dr.H application

This function allows you to review HDS stored files in Dr.H application.

Note: HDS should be installed on the same PC.

1. Select “Tools – Convert HDS (stored files) to Dr.H” to invoke HDS “DataToTextConverter”.

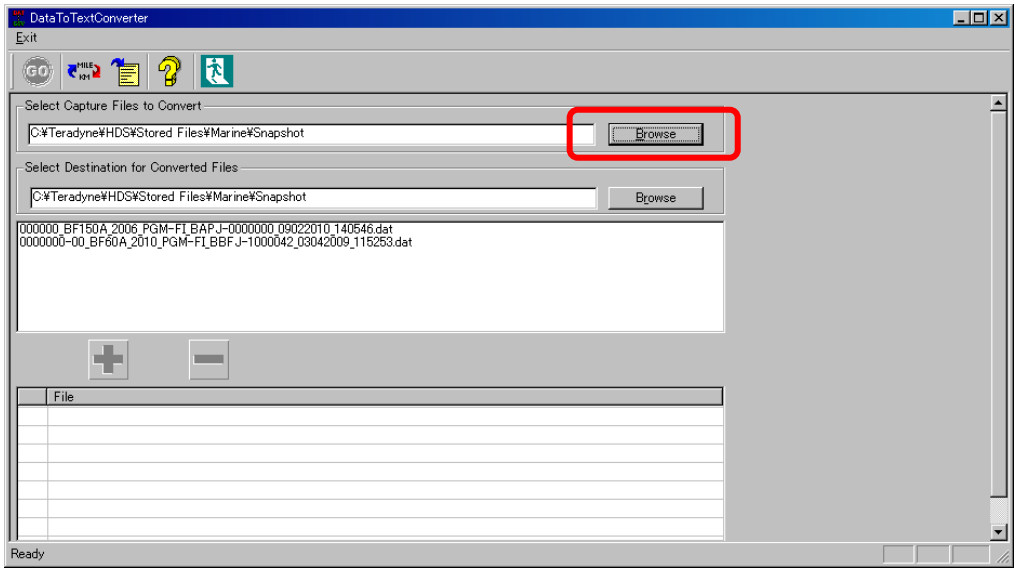


2. Select the directory holding the stored files to convert.

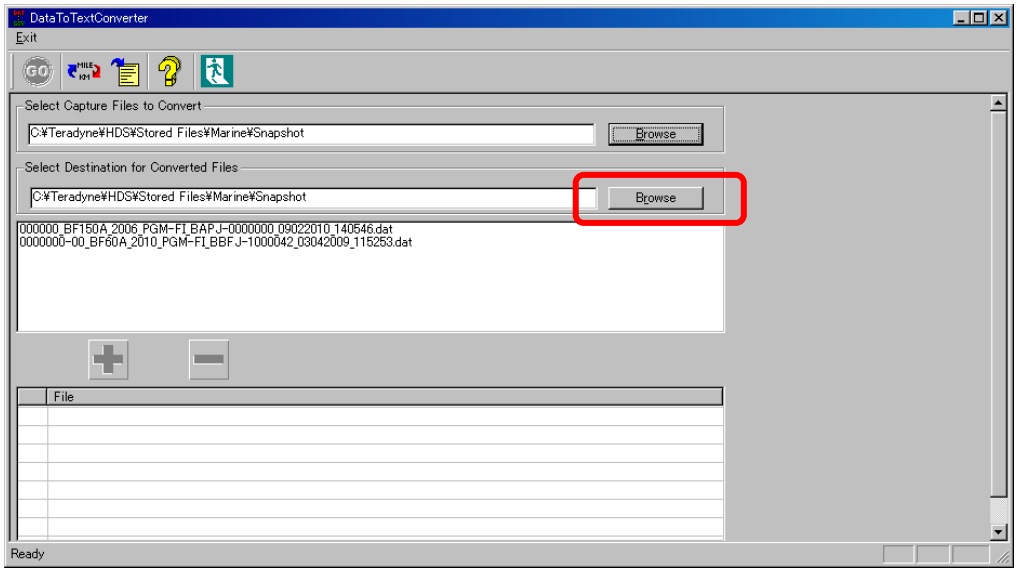
C:¥Teradyne¥HDS¥Stored Files¥Marine¥Snapshot

C:¥Teradyne¥HDS¥Stored Files¥Marine¥DTC

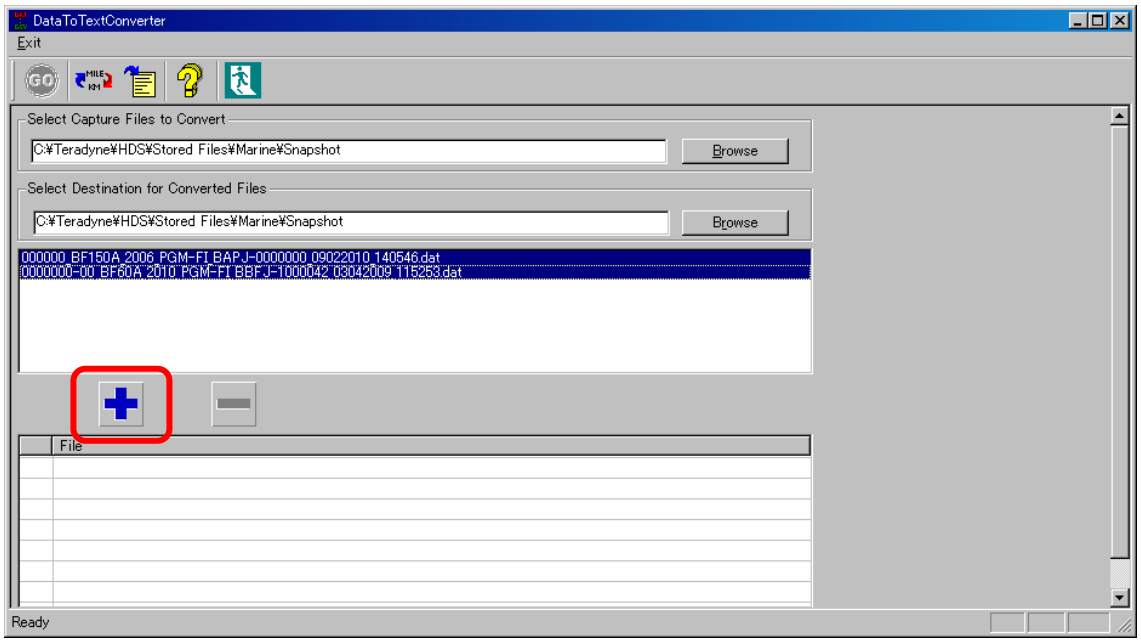
This is done by selecting the top Browse button. This will display a file selection dialog allowing the selection of 1 or more capture files to convert. By selecting any number of files and pressing OPEN button to confirm selection, the selected file will be listed within the list view window above the Add & Remove buttons.

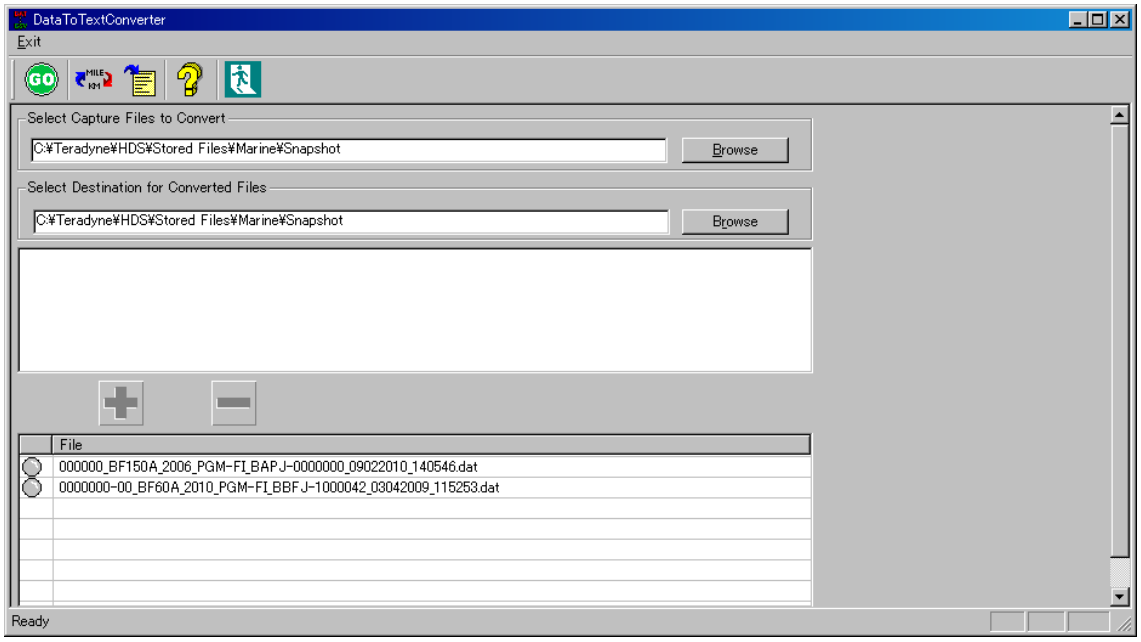


3. Specify the target directory to where the converted files are to be written to. This can be done by selecting the second Browse button which provides a dialog to select and define the directory to store the new data files

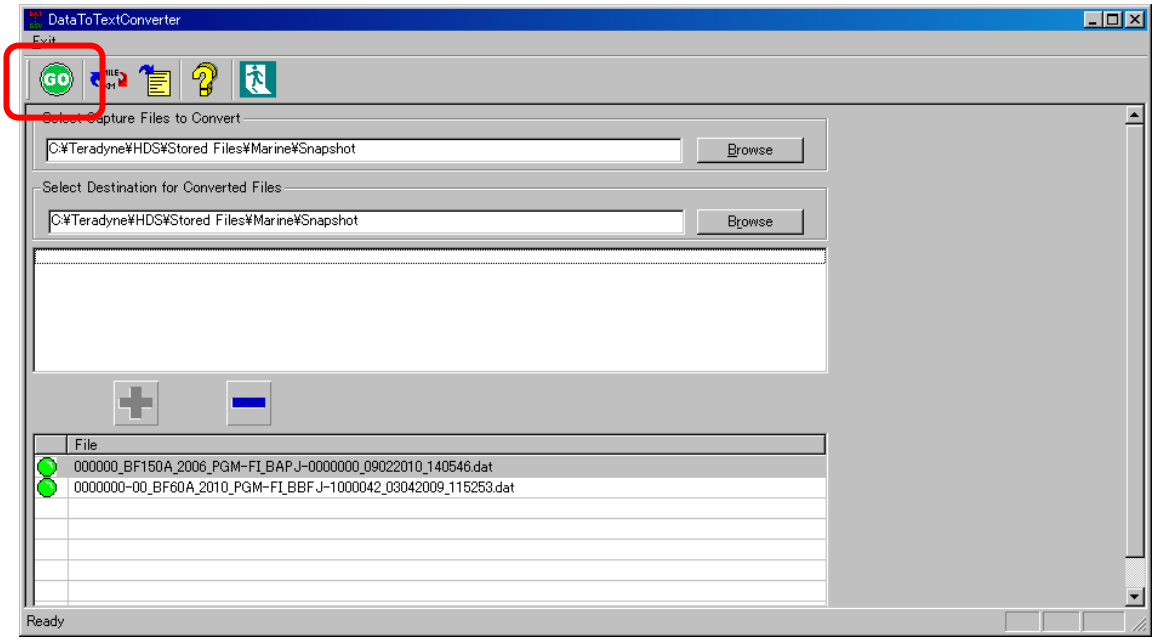


4. From the list of files to be converted, select 1 or more files that do require to be converted. This will enable the Add button to move the selected files to the capture file list.

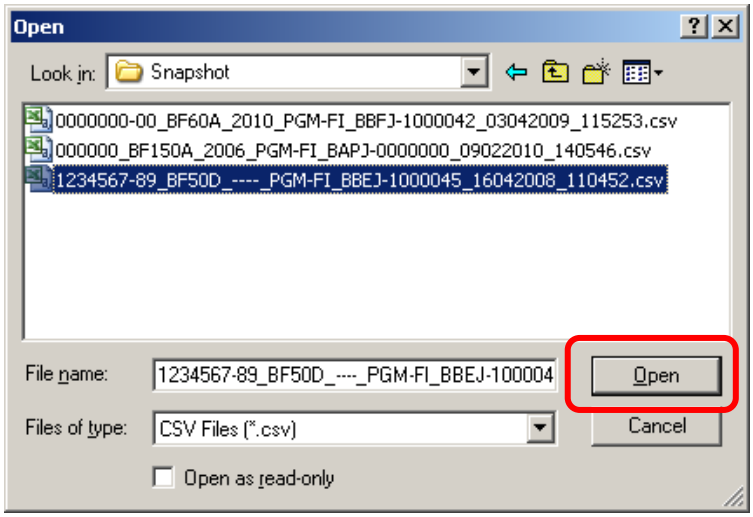




5. Once complete, the Start button (GO button) can be selected. This will begin the process of converting the capture files one by one and writing them to the selected target directory.



6. Select “File – Open HDS File” to select and open HDS file in Dr.H application



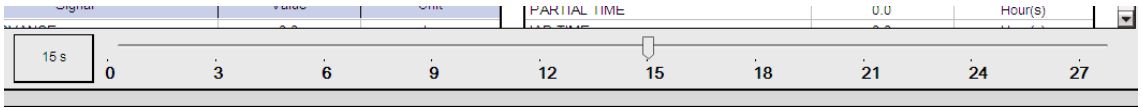
HDS Snapshot file will open in Dr.H Data List tab and HDS DTC file will open in Dr.H DTC tab.

Note:

* Snap Shot – trigger point

HDS trigger point will be the middle of the Dr.H total record time.

When you open HDS Snapshot data which was set 30 sec recording time, 15 sec is the trigger point on Dr.H Data List window.



* DTC files for multiple freeze frame

Dr.H will not support opening HDS DTC file for multiple freeze frame data.

12. iGX - Engine with ECU Installed: Caution when replacing/reparing ECU on an iGX engine

* Contact your Honda Distributor for details of the procedure to overwrite the ECU data.
* For using Dr.H to change iGX mode/parameter data in OEM applications, please contact Honda engine supplier in your region.

13. FAQs

< Computer >

Q. Can I use a desktop computer?

A. Yes.

< Setup >

Q. How can I uninstall Dr. H?

A. Generally, there is no need to uninstall Dr. H, but if you wish to do so, it is possible using the "Add and delete Applications" function in Windows.

< Connection >

Q. How is Dr. H connected to a PC?

A. It is connected to the USB port on the PC using a specific USB cable.

< Operations/functions-related >

Q. Which models are compatible with Dr. H?

A. When Dr. H is started up, the names of the installed models for each category are displayed in the start window.

Q. How can the software version be checked?

A. When Dr. H is started up, this can be seen at the bottom of the start screen.

Q. Cannot communicate with the product

A. Setup the COM port.

A. Check to see that the DLC/USB cables are properly connected.

A. Check to see that the product's ignition key is on.

14. Terminology

Term	Explanation
COM port	Communication number allocated when connecting the communication unit to a PC.Dr. H and the device manager Com port (Communication number) must be consistent.
DLC	Abbreviation of "Data Link Connector". Motor outboards have a red connector to connect to Dr. H. All other products compatible with Dr. H have a blue connector.
DLC cable	Cable to connect communication unit and products' DLC.
DTC	Abbreviation of "Diagnostic Trouble Code"Fault diagnosis code. In Dr. H, the product DTC code and failure information are shown.
ECU	Abbreviation of "Electronic Control Unit".Electronic control unit.Equipment that calculates electric signals input from each sensor in a microcomputer and outputs those electric signals to each type of actuator through an output processing circuit.
Function test	Operates each device automatically in order to conduct tests.(Outboard motor only)
Installation	Installing/setting up software in a PC for actual use.
Interface unit	A linking component connecting PC and products.
Simple diagnosis	Performs simple diagnosis.
Snapshot	Mode that saves and then plays back communication data.
Uninstalling	Deleting application software installed in a PC and returning the PC to its previous condition.
USB	Abbreviation of "Universal Serial Bus".A regulation for the transmission route of data connecting PCs to peripheral equipment such as a keyboard, mouse, modem etc.
USB cable	Cable for connecting PC and communication unit.